

# HEXDC Rabbit pAb

Catalog # AP96833

## Product Information

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| <b>Application</b>             | WB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Primary Accession</b>       | <a href="#">Q8WVB3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Other Accession</b>         | <a href="#">Q8WVB3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Clonality</b>               | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Calculated MW</b>           | 53790                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Physical State</b>          | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen</b>               | KLH conjugated synthetic peptide derived from human HEXDC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Epitope Specificity</b>     | 1-100/486                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Isotype</b>                 | IgG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>                  | affinity purified by Protein A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Buffer</b>                  | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>SIMILARITY</b>              | Belongs to the glycosyl hydrolase 20 family.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>SUBUNIT</b>                 | Homodimer; disulfide-linked (By similarity).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Important Note</b>          | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Background Descriptions</b> | HEXDC, also known as hexosaminidase D, beta-hexosaminidase D, N-acetyl-beta-galactosaminidase, hexosaminidase domain-containing protein or beta-N-acetylhexosaminidase, is a 486 amino acid cytoplasmic and nuclear protein that has hexosaminidase activity and belongs to the glycosyl hydrolase 20 family. Existing as two alternatively spliced isoforms, HEXDC catalyzes the hydrolysis of non-reducing N-acetyl-D-hexosamine residues near the termini of N-acetyl-beta-D-hexosaminides. The gene encoding HEXDC maps to human chromosome 17, which comprises over 2.5% of the human genome and encodes over 1,200 genes. Two key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1. Defects in p53 is associated with malignant cell growth and Li-Fraumeni syndrome. BRCA1 is directly involved in DNA repair and is recognized as a genetic determinant of early onset breast cancer and predisposition to cancers of the ovary, colon, prostate gland and fallopian tubes. |

## Additional Information

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| <b>Gene ID</b>     | 284004                                                                                                                                                                                                                                                                                      |
| <b>Other Names</b> | HEXDC; HEXD_HUMAN; HEXD; Beta-N-acetylhexosaminidase; Beta-hexosaminidase D; Hexosaminidase domain-containing protein; N-acetyl-beta-galactosaminidase; 3.2.1.52; hexosaminidase D; hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing; hexosaminidase D, cytosolic |
| <b>Dilution</b>    | WB=1:500-2000                                                                                                                                                                                                                                                                               |

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| <b>Storage</b> | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
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## Protein Information

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| <b>Name</b>              | HEXD ( <a href="#">HGNC:26307</a> )                                                                                                                                                                                                                                                 |
| <b>Function</b>          | Has hexosaminidase activity. Responsible for the cleavage of the monosaccharides N-acetylglucosamine (GlcNAc) and N- acetylgalactosamine (GalNAc) from cellular substrates. Has a preference for galactosaminide over glucosaminide substrates (PubMed: <a href="#">27149221</a> ). |
| <b>Cellular Location</b> | Cytoplasm {ECO:0000250 UniProtKB:Q3U4H6}. Nucleus {ECO:0000250 UniProtKB:Q3U4H6}. Extracellular vesicle                                                                                                                                                                             |
| <b>Tissue Location</b>   | Expressed in synovial fibroblasts and synovial membranes.                                                                                                                                                                                                                           |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.