10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

HEXDC Rabbit pAb

Catalog # AP96833

Product Information

Application	WB
Primary Accession	Q8WVB3
Other Accession	Q8WVB3
Reactivity	Human
Predicted	Rat, Mouse, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53790
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human HEXDC
Epitope Specificity	1-100/486
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the glycosyl hydrolase 20 family.
SUBUNIT	Homodimer; disulfide-linked (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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

Gene ID	284004
Other Names	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

Dilution	WB=1:500-2000
Storage	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.

Protein Information

Name	HEXD (HGNC:26307)
Function	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:27149221).
Cellular Location	Cytoplasm {ECO:0000250|UniProtKB:Q3U4H6}. Nucleus {ECO:0000250|UniProtKB:Q3U4H6}. Extracellular vesicle
Tissue Location	Expressed in synovial fibroblasts and synovial membranes.

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