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

# HIP2 Rabbit pAb

Catalog # AP99486

## Product Information

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| **Application** | IHC-P, IHC-F, IF |
| **Primary Accession** | P61086 |
| **Other Accession** | P61086 |
| **Reactivity** | Rat |
| **Predicted** | Pig, Human, Mouse, Rabbit, Chicken, Dog |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 22407 |
| **Physical State** | Liquid |
| **Immunogen** | KLH conjugated synthetic peptide derived from human HIP2 |
| **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 ubiquitin-conjugating enzyme family.Contains 1 UBA domain. |
| **SUBUNIT** | Interacts with RNF138/NARF. Interacts with BRCA1. |
| **Post-translational modifications** | Sumoylation at Lys-14 impairs catalytic activity (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** | Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin-protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded lumenal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequence degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. In case of infection by cytomegaloviruses may be involved in the US11-dependent degradation of MHC class I heavy chains following their export from the ER to the cytosol. In case of viral infections may be involved in the HPV E7 protein-dependent degradation of RB1. |

## Additional Information

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| **Gene ID** | 3093 |
| **Other Names** | E2-25K; HIP2; HYPG; LIG; UBC1; D5Ertd601e; HIP-2; UBE2K_HUMAN; UBE2K; E2 ubiquitin-conjugating enzyme K; Huntingtin-interacting protein 2 (HIP-2); |

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| | Ubiquitin carrier protein; Ubiquitin-conjugating enzyme E2-25 kDa (Ubiquitin-conjugating enzyme E2(25K) \| Ubiquitin-conjugating enzyme E2-25K); Ubiquitin-protein ligase; 2.3.2.23; UBE2K_MOUSE; ubiquitin conjugating enzyme E2 K; huntingtin interacting protein 2; ubiquitin-conjugating enzyme E2K (UBC1 homolog, yeast); ubiquitin-conjugating enzyme E2K |
| **Dilution** | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 |
| **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

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| **Name** | UBE2K |
| **Synonyms** | HIP2, LIG |
| **Function** | Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro, in the presence or in the absence of BRCA1-BARD1 E3 ubiquitin-protein ligase complex, catalyzes the synthesis of 'Lys-48'-linked polyubiquitin chains. Does not transfer ubiquitin directly to but elongates monoubiquitinated substrate protein. Mediates the selective degradation of short-lived and abnormal proteins, such as the endoplasmic reticulum-associated degradation (ERAD) of misfolded lumenal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequence degradation of p53/TP53. Proposed to be involved in ubiquitination and proteolytic processing of NF-kappa-B; in vitro supports ubiquitination of NFKB1. In case of infection by cytomegaloviruses may be involved in the US11-dependent degradation of MHC class I heavy chains following their export from the ER to the cytosol. In case of viral infections may be involved in the HPV E7 protein-dependent degradation of RB1. |
| **Cellular Location** | Cytoplasm {ECO:0000250\|UniProtKB:P61085}. |
| **Tissue Location** | Expressed in all tissues tested, including spleen, thymus, prostate, testis, ovary, small intestine, colon, peripheral blood leukocytes, T-lymphocytes, monocytes, granulocytes and bone marrow mononuclear cells. Highly expressed in brain, with highest levels found in cortex and striatum and at lower levels in cerebellum and brainstem. |

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