

UBE2K Antibody(N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP19802a

Product Information

| | |
|--------------------------|---|
| Application | WB, E |
| Primary Accession | P61086 |
| Other Accession | P61087 , P61085 , NP_005330.1 |
| Reactivity | Human, Mouse |
| Predicted | Bovine, Mouse |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Calculated MW | 22407 |
| Antigen Region | 2-30 |

Additional Information

| | |
|---------------------------|--|
| Gene ID | 3093 |
| Other Names | Ubiquitin-conjugating enzyme E2 K, Huntingtin-interacting protein 2, HIP-2, Ubiquitin carrier protein, Ubiquitin-conjugating enzyme E2-25 kDa, Ubiquitin-conjugating enzyme E2(25K), Ubiquitin-conjugating enzyme E2-25K, Ubiquitin-protein ligase, UBE2K, HIP2, LIG |
| Target/Specificity | This UBE2K antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-30 amino acids from the N-terminal region of human UBE2K. |
| Dilution | WB~~1:1000 E~~Use at an assay dependent concentration. |
| Format | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Storage | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Precautions | UBE2K Antibody(N-term) is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

| | |
|-----------------|-----------|
| 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 luminal proteins. Ubiquitinates huntingtin. May mediate foam cell formation by the suppression of apoptosis of lipid-bearing macrophages through ubiquitination and subsequent 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. |

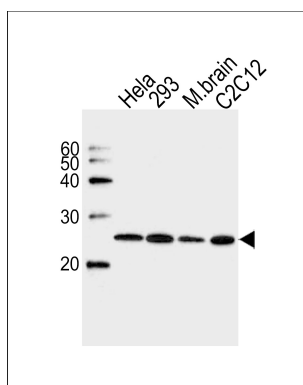
Background

The protein encoded by this gene belongs to the ubiquitin-conjugating enzyme family. This protein interacts with RING finger proteins, and it can ubiquitinate huntingtin, the gene product for Huntington's disease. Known functions for this protein include a role in aggregate formation of expanded polyglutamine proteins and the suppression of apoptosis in polyglutamine diseases, a role in the dislocation of newly synthesized MHC class I heavy chains from the endoplasmic reticulum, and involvement in foam cell formation. Multiple transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq].

References

Bae, Y., et al. *Biochem. Biophys. Res. Commun.* 397(4):718-723(2010)
Christensen, D.E., et al. *Nat. Struct. Mol. Biol.* 14(10):941-948(2007)
de Pril, R., et al. *Mol. Cell. Neurosci.* 34(1):10-19(2007)
Flierman, D., et al. *Proc. Natl. Acad. Sci. U.S.A.* 103(31):11589-11594(2006)
Yamada, M., et al. *J. Biol. Chem.* 281(30):20749-20760(2006)

Images



Western blot analysis of lysates from HeLa, 293 cell line, mouse brain tissue lysate, C2C12 cell line (from left to right), using UBE2K Antibody (N-term)(Cat. #AP19802a). AP19802a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

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