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

# UBE2K Antibody(N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5001

## Product Information

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

## Additional Information

| | |
|---|---|
| **Gene ID** | 3093 |
| **Antigen Region** | 2-30 |
| **Other Names** | UBE2K; HIP2; LIG; Ubiquitin-conjugating enzyme E2 K; Huntingtin-interacting protein 2; Ubiquitin carrier protein; Ubiquitin-conjugating enzyme E2-25 kDa; Ubiquitin-protein ligase |
| **Dilution** | WB~~1:500 |
| **Target/Specificity** | This HIP2 (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. |
| **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 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. |

## Background

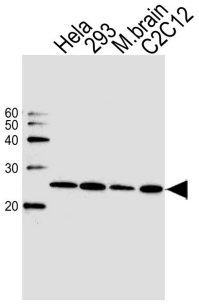
The protein encoded by this gene belongs to the ubiquitin-conjugating enzyme family. This protein interacts with RING finger proteins, and it can ubiquitinate huntingtin, the gene product for Huntington's disease. Known functions for this protein include a role in aggregate formation of expanded polyglutamine 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 and mouse C2C12 cell line (from left to right), using UBE2K Antibody (N-term)(Cat. #AW5001). AW5001 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.




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