Recombinant Human UBE2K

Cat. No. UBE2K-29321TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HIP2 with proprietary tag, 22.4kDa.
Species	Human
Source	E.coli
ProteinLength	200 amino acids
Description	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 Huntingtons 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.
Molecular Weight	22.400kDa
Tissue specificity	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 leve
Biological activity	UBE2K-29321TH charges and supports ubiquitinylation in vitro. Typical enzyme

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	concentration to support conjugation in vitro is 100 nM to 1 μM
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	pH: 7.50Constituents:Tris buffered saline, 0.02% DTT
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the ubiquitin-conjugating enzyme family.Contains 1 UBA domain.

GENE INFORMATION

Gene Name	UBE2K ubiquitin-conjugating enzyme E2K [Homo sapiens]
Official Symbol	UBE2K
Synonyms	UBE2K; ubiquitin-conjugating enzyme E2K; HIP2, huntingtin interacting protein 2 , ubiquitin conjugating enzyme E2K (UBC1 homolog, yeast); ubiquitin-conjugating enzyme E2 K; HYPG; UBC1;
Gene ID	3093
mRNA Refseq	NM_001111112
Protein Refseq	NP_001104582
MIM	602846

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Uniprot ID	P61086
Chromosome Location	4p14
Pathway	Adaptive Immune System, organism-specific biosystem; Antigen processing: Ubiquitination & Proteasome degradation, organism-specific biosystem; Class I MHC mediated antigen processing & presentation, organism-specific biosystem;
Function	ATP binding; acid-amino acid ligase activity; ligase activity; nucleotide binding; ubiquitin protein ligase binding;

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