

Recombinant Full Length Human UBA5, His-tagged

Cat. No. UBA5-15847H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human UBA5 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-404aa
Description	UBA5 (ubiquitin-like modifier activating enzyme 5) belongs to the ubiquitin-activating E1 family and UBA5 subfamily. Ubiquitin and ubiquitin-like proteins are known to be covalently conjugated to a variety of cellular substrates via a three-step enzymatic pathway. The ubiquitin-activating enzyme (E1) plays a key role in the first step of ubiquitination pathway to activate ubiquitin or ubiquitin-like proteins. UBA5 had been proved to activate an ubiquitin-like protein, ubiquitin-fold modifier 1 (Ufm1), by forming a high-energy thioester bond. It localizes mainly in cytoplasm, while it mainly localizes to the nucleus in presence of SUMO2.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 50mM NaCl
Molecular Mass	47.4kDa (428aa) confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAESVE RLQQRVQELE RELAQERSLQ VPRSGDGGGG RVRIEKMSSE VVDSNPYSRL MALKRMGIVS DYEKIRTFV

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AIVGVGGVGS VTAEMLTRCG IGKLLLFDYD KVELANMNRL FFQPHQAGLS
 KVQAAEHTLR NINPDVLFV HNYNITTVENFQHFMDRISN GGLEEGKPVD
 LVLSCVDNFE ARMTINTACN ELGQTWMESE VSENAVSGHI QLIIPGESAC
 FACAPPLVVA ANIDEKTLKR EGVCAASLPT TMGVVAGILV QNVLKFLNLF
 GTVSFYLGYN AMQDFFPTMS MKPNPQCDDR NCRKQQEEYK KKVAALPKQE
 VIQEEEEIIHEDNEWGIELV SEVSEELKN FSGPVPDLPE GITVAYTIPK
 KQEDSVTELT VEDSGESLED LMAKMKNM

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [UBA5 ubiquitin-like modifier activating enzyme 5 \[Homo sapiens \]](#)

Official Symbol UBA5

Synonyms UBA5; ubiquitin-like modifier activating enzyme 5; UBE1DC1, ubiquitin activating enzyme E1 domain containing 1; ubiquitin-like modifier-activating enzyme 5; FLJ23251; ubiquitin activating enzyme E1 homolog (yeast); UFM1-activating enzyme; ubiquitin-activating enzyme 5; UBA5, ubiquitin-activating enzyme E1 homolog; ubiquitin-activating enzyme E1-domain containing 1; ubiquitin-activating enzyme E1 domain-containing protein 1; THIFP1; UBE1DC1; FLJ17281; FLJ23251UBA5;

Gene ID [79876](#)

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mRNA Refseq	NM_024818
Protein Refseq	NP_079094
MIM	610552
UniProt ID	Q9GZZ9
Chromosome Location	3q22
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; Immune System, organism-specific biosystem;
Function	ATP binding; UFM1 activating enzyme activity; catalytic activity; cofactor binding; metal ion binding; nucleotide binding; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor; protein binding;

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