

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 IGGLEGKPV
 KVQAAEHTLR NINPDVLFV HNYNITTVENFQHFMDRISN GGLEEGKPV
 LVLSCVDNFE ARMTINTACN ELGQTWMESE VSENAVSGHI QLIIPGESAC
 FACAPPLVVA ANIDEKTLKR EGVCAASLPT TMGVVAGILV QNVLKFLN
 GTVSFYLGYN AMQDFPTMS MKPNPQCDDR NCRKQQEEYK KKVAALPKQE
 VIQEEEEIIHEDNEWGIELV SEVSEEELKN 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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