

Recombinant Human UBA6, GST-tagged

Cat. No. UBA6-2440H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human UBA6 produced in <i>E. coli</i> . MW=63.9kDa.
Species	Human
Source	<i>E. coli</i>
Description	<p>UBA6 (ubiquitin-like modifier activating enzyme-6, also known as UbE1L2) is a novel ubiquitin activating enzyme that is also capable of activating the ubiquitin-like protein FAT10 (human leukocyte antigen F-associated transcript 10), which, similarly to ubiquitin, may serve as a signal for proteasomal degradation. Only one UBA6 specific E2 conjugating enzyme, known as Use1 (Uba6-specific E2 enzyme 1) or UbE2Z, which is capable of accepting activated FAT10 and ubiquitin, has been identified to date. siRNA-mediated down-regulation of use1 mRNA results in a strong reduction of FAT10 conjugate formation suggesting that Use1 is the major E2 enzyme in the FAT10 conjugation cascade. Interestingly Use1 has been identified as the first known substrate of FAT10 conjugation, as it is efficiently auto-FAT10ylated. Co-expression of FAT10 and the linker protein NUB1L lead to a proteolytic down-regulation of Use1 suggesting that auto-modification with FAT10 serves as a negative auto-regulation of FAT10 conjugation.</p>
Concentration	0.5mg/ml.
Purity	≥90% (SDS-PAGE).
Formulation	Liquid. In TBS containing 1mM DTT.

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Reconstitution	Reconstitute with 50µl sterile distilled water. Further dilutions should be made with medium containing 5% fetal calf serum or a carrier protein.
Handling	Avoid freeze/thaw cycles. After opening, prepare aliquots and store at -80°C.
Storage And Stability	Stable for at least 1 year after receipt when stored, as supplied, at -80°C.
GENE INFORMATION	
Gene Name	UBA6 ubiquitin-like modifier activating enzyme 6 [Homo sapiens]
Synonyms	UBA6; ubiquitin-like modifier activating enzyme 6; MOP-4; UBE1L2; FLJ10808; FLJ23367; UBA6, ubiquitin-activating enzyme E1; UBA6, ubiquitin-activating enzyme E1 -like 2; Ubiquitin-like modifier-activating enzyme 6; Ubiquitin-activating enzyme 6; Ubiquitin-activating enzyme E1-like protein 2; Monocyte protein 4
Gene ID	55236
mRNA Refseq	NM_018227
Protein Refseq	NP_060697
MIM	611361
UniProt ID	A0AVT1
Chromosome Location	4q13.2
Pathway	Ubiquitin mediated proteolysis

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Function

ATP binding; ligase activity; nucleotide binding; small protein activating enzyme activity

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