

Recombinant Human UBA5 Protein (A2-M404), Tag Free

Cat. No. UBA5-0404H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human (GG)-UBA5(A2-M404 end) Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	A2-M404
Description	E1-like enzyme which specifically catalyzes the first step in ufmylation. Activates UFM1 by first adenylating its C-terminal glycine residue with ATP, and thereafter linking this residue to the side chain of a cysteine residue in E1, yielding a UFM1-E1 thioester and free AMP. Activates UFM1 via a trans-binding mechanism, in which UFM1 interacts with distinct sites in both subunits of the UBA5 homodimer. Trans-binding also promotes stabilization of the UBA5 homodimer, and enhances ATP-binding. Transfer of UFM1 from UBA5 to the E2-like enzyme UFC1 also takes place using a trans mechanism. Ufmylation is involved in reticulophagy (also called ER-phagy) induced in response to endoplasmic reticulum stress. Ufmylation is essential for erythroid differentiation of both megakaryocytes and erythrocytes.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	80%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol, 1mM DTT.
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	UBA5 ubiquitin-like modifier activating enzyme 5 [Homo sapiens (human)]
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
mRNA Refseq	NM_024818
Protein Refseq	NP_079094
MIM	610552

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UniProt ID

Q9GZZ9

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