

UBA6 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AW5631

Product Information

Application	WB
Primary Accession	A0AVT1
Other Accession	Q8C7R4
Reactivity	Human, Mouse
Predicted	Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	117970
Isotype	Rabbit IgG
Antigen Source	HUMAN

Additional Information

Gene ID	55236
Antigen Region	861-889
Other Names	Ubiquitin-like modifier-activating enzyme 6, Ubiquitin-activating enzyme 6, Monocyte protein 4, MOP-4, Ubiquitin-activating enzyme E1-like protein 2, E1-L2, UBA6, MOP4, UBE1L2
Dilution	WB~~0.25
Target/Specificity	This UBA6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 861-889 amino acids from the C-terminal region of human UBA6.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	UBA6 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UBA6
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Synonyms

MOP4, UBE1L2

Function

Activates ubiquitin 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 ubiquitin-E1 thioester and free AMP (PubMed:[35970836](#), PubMed:[35986001](#)). Specific for ubiquitin, does not activate ubiquitin-like peptides. Also activates UBD/FAT10 conjugation via adenylation of its C-terminal glycine (PubMed:[17889673](#), PubMed:[35970836](#), PubMed:[35986001](#)). Differs from UBE1 in its specificity for substrate E2 charging. Does not charge cell cycle E2s, such as CDC34. Essential for embryonic development. Isoform 2 may play a key role in ubiquitin system and may influence spermatogenesis and male fertility.

Tissue Location

Widely expressed. Isoform 2 is predominantly expressed in testis with higher expression in adult testis than in fetal testis.

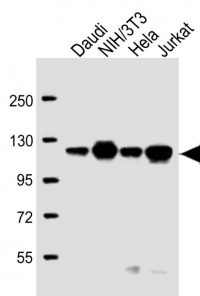
Background

Modification of proteins with ubiquitin (UBB; MIM 191339) or ubiquitin-like proteins controls many signaling networks and requires a ubiquitin-activating enzyme (E1), a ubiquitin conjugating enzyme (E2), and a ubiquitin protein ligase (E3). UBE1L2 is an E1 enzyme that initiates the activation and conjugation of ubiquitin-like proteins (Jin et al., 2007 [PubMed 17597759]).

References

- Groettrup, M., et al. Trends Biochem. Sci. 33(5):230-237(2008)
Chiu, Y.H., et al. Mol. Cell 27(6):1014-1023(2007)
Pelzer, C., et al. J. Biol. Chem. 282(32):23010-23014(2007)
Jin, J., et al. Nature 447(7148):1135-1138(2007)
Hillier, L.W., et al. Nature 434(7034):724-731(2005)

Images



All lanes : Anti-UBA6 Antibody (C-term) at 1:2000 dilution
Lane 1: Daudi whole cell lysate Lane 2: NIH/3T3 whole cell lysate Lane 3: Hela whole cell lysate Lane 4: Jurkat whole cell lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 118 kDa
Blocking/Dilution buffer: 5% NFDm/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.