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UBC12 Recombinant Rabbit mAb

Catalog # AP98686

Product Information

Application	WB, IHC-P, IHC-F, IF, IP, E
Primary Accession	P61081
Other Accession	P61081
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	20900
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ubiquitin-conjugating enzyme family. UBC12 subfamily.
SUBUNIT	Interacts with UBA3, DCUN1D1 and RBX1.
Post-translational modifications	The acetylation of Met-1 is cotranslational, and not regulatory. The N-acetylmethionine increases affinity for DCUN1D1 by about 2 orders of magnitude and is crucial for NEDD8 transfer to cullins.
Background Descriptions	The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E2 ubiquitin-conjugating enzyme family. The encoded protein is linked with a ubiquitin-like protein, NEDD8, which can be conjugated to cellular proteins, such as Cdc53/culin. [provided by RefSeq, Jul 2008],

Additional Information

Gene ID	9040
Other Names	UBC-RS2; UBC12; hUbc12; 2510040H03Rik; UBC12_HUMAN; UBE2M; NEDD8 carrier protein; Ubiquitin-conjugating enzyme E2 M; 2.3.2.34; UBC12_MOUSE; ubiquitin conjugating enzyme E2 M; ubiquitin-conjugating enzyme E2M (homologous to yeast UBC12); ubiquitin-conjugating enzyme E2M (UBC12 homolog, yeast); ubiquitin-conjugating enzyme E2M
Dilution	IHC-P=1:50-200,IHC-F=1:50-200,WB=1:500-2000,IF=1:50-200,ELISA=1:5000-10000,IP=1:50-200
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	UBE2M
Synonyms	UBC12
Function	Accepts the ubiquitin-like protein NEDD8 from the UBA3-NAE1 E1 complex and catalyzes its covalent attachment to other proteins. The specific interaction with the E3 ubiquitin ligase RBX1, but not RBX2, suggests that the RBX1-UBE2M complex neddylates specific target proteins, such as CUL1, CUL2, CUL3 and CUL4. Involved in cell proliferation.

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