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UFC1 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19776a

Product Information

Application	WB, E
Primary Accession	Q9Y3C8
Other Accession	Q6BBI8, Q9CR09, Q5E953, NP_057490.2
Reactivity	Human
Predicted	Bovine, Mouse, Rat, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB40483
Calculated MW	19458
Antigen Region	2-31

Additional Information

Gene ID	51506
Other Names	Ubiquitin-fold modifier-conjugating enzyme 1, Ufm1-conjugating enzyme 1, UFC1
Target/Specificity	This UFC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 2-31 amino acids from the N-terminal region of human UFC1.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
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	UFC1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	UFC1 {ECO:0000303|PubMed:15071506, ECO:0000312|HGNC:HGNC:26941}
Function	E2-like enzyme which specifically catalyzes the second step in ufmylation (PubMed:15071506, PubMed:29868776, PubMed:30626644,

PubMed:34588452, PubMed:35394863, PubMed:36121123, PubMed:38383789). Accepts the ubiquitin-like modifier UFM1 from the E1 enzyme UBA5 and forms an intermediate with UFM1 via a thioester linkage (PubMed:15071506, PubMed:29868776, PubMed:34588452, PubMed:38383789). Ufmylation is involved in various processes, such as ribosome recycling, response to DNA damage, interferon response or reticulophagy (also called ER-phagy) (PubMed:27351204, PubMed:32160526, PubMed:35394863, PubMed:37036982, PubMed:38383789).

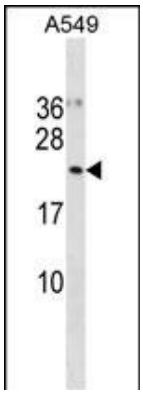
Background

UFC1 is an E2-like conjugating enzyme for ubiquitin-fold modifier-1 (UFM1; MIM 610553) (Komatsu et al., 2004 [PubMed 15071506]).

References

Liu, G., et al. J. Struct. Funct. Genomics 10(2):127-136(2009)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :
Komatsu, M., et al. EMBO J. 23(9):1977-1986(2004)

Images



UFC1 Antibody (N-term) (Cat. #AP19776a) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the UFC1 antibody detected the UFC1 protein (arrow).

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