

Ufc1 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2187b

Specification

Ufc1 Antibody (C-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O9Y3C8
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	19458

Ufc1 Antibody (C-term) - 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 selected from the C-terminal region of human Ufc1.

Dilution

WB~~1:1000

IHC-P~~1:10~50

FC~~1:10~50

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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Ufc1 Antibody (C-term) - 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

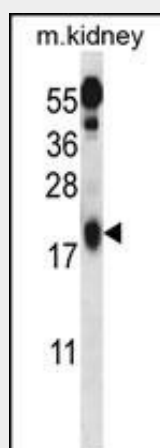
(PubMed:[15071506](#), PubMed:[29868776](#), PubMed:[30626644](#), PubMed:[34588452](#), PubMed:[35394863](#), PubMed:[36121123](#), PubMed:[38383789](#)). Accepts the ubiquitin-like modifier UFM1 from the E1 enzyme UBA5 and forms an intermediate with UFM1 via a thioester linkage (PubMed:[15071506](#), 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](#)).

Ufc1 Antibody (C-term) - Protocols

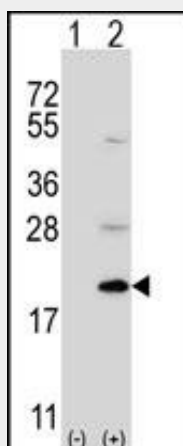
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

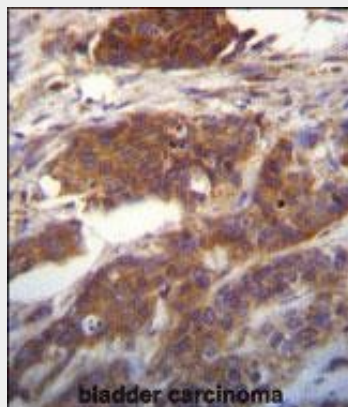
Ufc1 Antibody (C-term) - Images



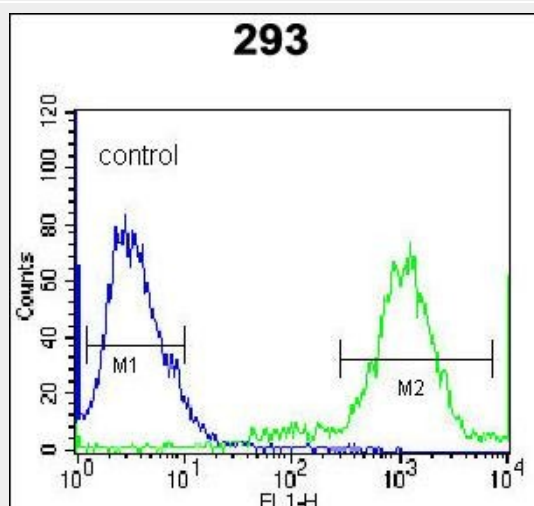
Ufc1 Antibody (C-term) (Cat. #AP2187b) western blot analysis in mouse kidney tissue lysates (35ug/lane). This demonstrates the Ufc1 antibody detected the Ufc1 protein (arrow).



Western blot analysis of Ufc1 (arrow) using rabbit polyclonal Ufc1 Antibody (C-term) (Cat. #AP2187b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the Ufc1 gene.



Ufc1 Antibody (C-term) (Cat. #AP2187b) immunohistochemistry analysis in formalin fixed and paraffin embedded human bladder carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of Ufc1 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



Ufc1 Antibody (C-term) (Cat. #AP2187b) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Ufc1 Antibody (C-term) - Background

Various ubiquitin-like (UBL) post-translational modifiers contribute critically to the protein degradation pathway. These UBLs are covalently linked to most target proteins through an enzymatic cascade analogous to ubiquitylation, consisting of E1 (activating), E2 (conjugating), and E3 (ligating) enzymes. Ufc1 belongs to the ubiquitin-conjugating enzyme family, and is an E2-like enzyme which forms an intermediate with UFM1, a novel ubiquitin-fold modifier, via thioester linkage.

Ufc1 Antibody (C-term) - References

Komatsu, M., et al., EMBO J. 23(9):1977-1986 (2004).