

KD-Validated Anti-UFC1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI1416**Specification****KD-Validated Anti-UFC1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	Q9Y3C8
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 19 kDa , observed, 19 kDa KDa
Gene Name	UFC1
Aliases	UFC1; Ubiquitin-Fold Modifier Conjugating Enzyme 1; HSPC155; Ubiquitin-Fold Modifier-Conjugating Enzyme 1; Ufm1-Conjugating Enzyme 1; NEDSG
Immunogen	A synthesized peptide derived from human UFC1

KD-Validated Anti-UFC1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	51506
Other Names	
Ubiquitin-fold modifier-conjugating enzyme 1, Ufm1-conjugating enzyme 1, UFC1 {ECO:0000303 PubMed:15071506, ECO:0000312 HGNC:HGNC:26941}	

KD-Validated Anti-UFC1 Rabbit Monoclonal Antibody - 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),

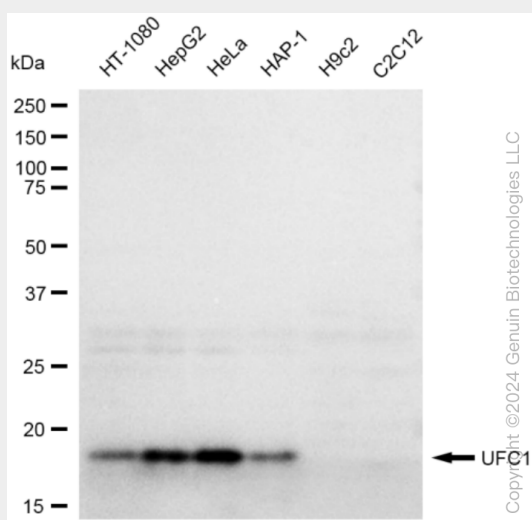
PubMed:32160526,
PubMed:35394863,
PubMed:37036982,
PubMed:38383789).

KD-Validated Anti-UFC1 Rabbit Monoclonal Antibody - Protocols

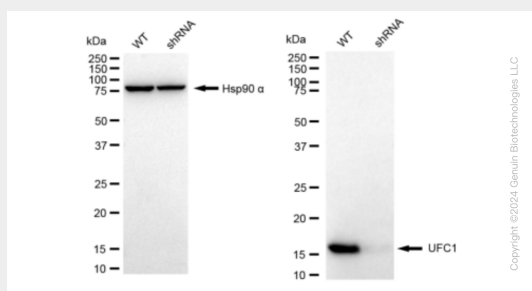
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-UFC1 Rabbit Monoclonal Antibody - Images

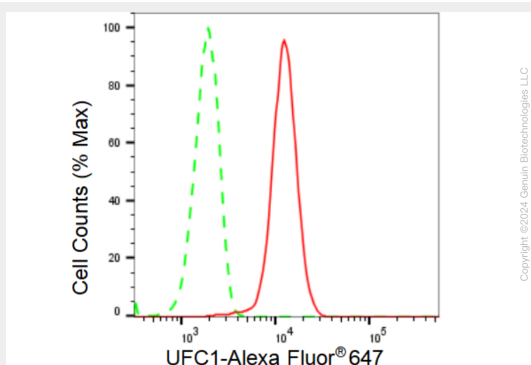


Western blotting analysis using anti-UFC1 antibody (Cat#AGI1416). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-UFC1 antibody (Cat#AGI1416, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

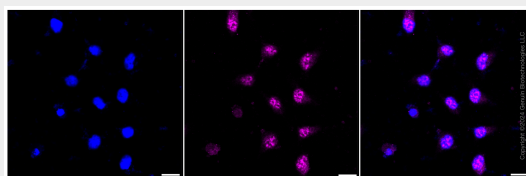


Western blotting analysis using anti-UFC1 antibody (Cat#AGI1416). UFC1 expression in wild type (WT) and UFC1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-UFC1 antibody (Cat#AGI1416, 1:5,000) and

HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of UFC1 expression in HeLa cells using UFC1 antibody (Cat#AGI1416, 1:2,000). Green, isotype control; red, UFC1.



Immunocytochemical staining of HeLa cells with UFC1 antibody (Cat#AGI1416, 1:1,000). Nuclei were stained blue with DAPI; UFC1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 μm.