

KD-Validated Anti-UFM1 Rabbit Monoclonal Antibody
Rabbit monoclonal antibody
Catalog # AGI2194**Specification****KD-Validated Anti-UFM1 Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	P61960
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 9 kDa; observed, 10 kDa KDa
Gene Name	UFM1
Aliases	UFM1; Ubiquitin Fold Modifier 1; C13orf20; Ubiquitin-Fold Modifier 1; BA131P10.1; Chromosome 13 Open Reading Frame 20; BM-002; HLD14
Immunogen	A synthesized peptide derived from human UFM1

KD-Validated Anti-UFM1 Rabbit Monoclonal Antibody - Additional Information

Gene ID	51569
Other Names	
Ubiquitin-fold modifier 1, UFM1 {ECO:0000303 PubMed:15071506, ECO:0000312 HGNC:HGNC:20597}	

KD-Validated Anti-UFM1 Rabbit Monoclonal Antibody - Protein Information

Name UFM1 {ECO:0000303|PubMed:15071506, ECO:0000312|HGNC:HGNC:20597}

Function

Ubiquitin-like modifier which can be covalently attached via an isopeptide bond to lysine residues of substrate proteins as a monomer or a lysine-linked polymer (PubMed:15071506, PubMed:20018847, PubMed:27653677, PubMed:29868776, PubMed:30626644, PubMed:38377992, PubMed:38383785). The so-called ufmylation, requires the UFM1- activating E1 enzyme UBA5, the UFM1-conjugating E2 enzyme UFC1, and the UFM1-ligase E3 enzyme UFL1 (PubMed:15071506, PubMed:20018847, PubMed:27653677, PubMed:29868776). Ufmylation is involved in various processes, such as ribosome recycling, response to DNA damage, transcription

or reticulophagy (also called ER-phagy) induced in response to endoplasmic reticulum stress (PubMed:25219498, PubMed:32160526, PubMed:38383785).

Cellular Location

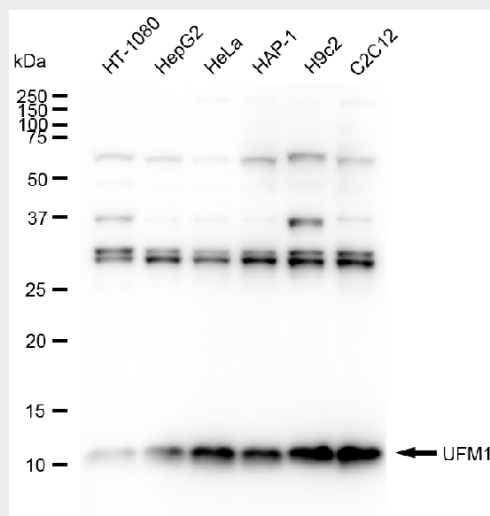
Nucleus. Cytoplasm

KD-Validated Anti-UFM1 Rabbit Monoclonal Antibody - Protocols

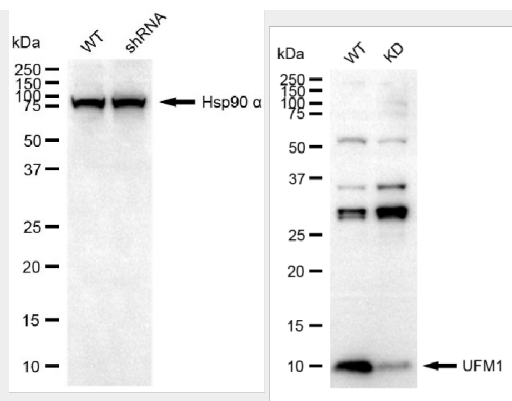
Provided below are standard protocols that you may find useful for product applications.

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

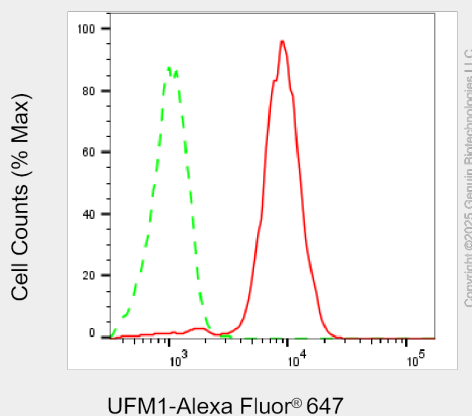
KD-Validated Anti-UFM1 Rabbit Monoclonal Antibody - Images



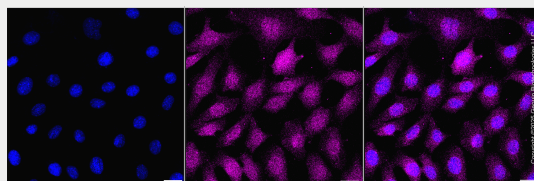
Western blotting analysis using anti-UFM1 antibody (Cat#AGI2194). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-UFM1 antibody (Cat#AGI2194, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-UFM1 antibody (Cat#AGI2194). UFM1 expression in wild-type (WT) and UFM1 shRNA knockdown (KD) HT-1080 cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-UFM1 antibody (Cat#AGI2194, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of UFM1 expression in C2C12 cells using anti-UFM1 antibody (Cat#AGI2194, 1:2,000). Green, isotype control; red, UFM1.



Immunocytochemical staining of C2C12 cells with anti-UFM1 antibody (Cat#AGI2194, 1:1,000). Nuclei were stained blue with DAPI; UFM1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.