

Anti-UFD1L Antibody

Catalog # AP96104

Product Information

Application	WB, IHC, FC, IF/IC
Primary Accession	Q92890
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	34500

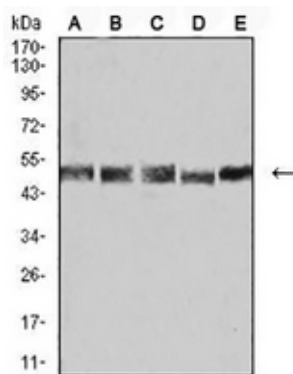
Additional Information

Gene ID	7353
Other Names	Ubiquitin fusion degradation protein 1 homolog; UB fusion protein 1
Target/Specificity	Recombinant fusion protein of human UFD1L expressed in E. Coli
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~FC (1/100 - 1/200) IF/IC~~N/A
Format	Mouse IgG2b. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

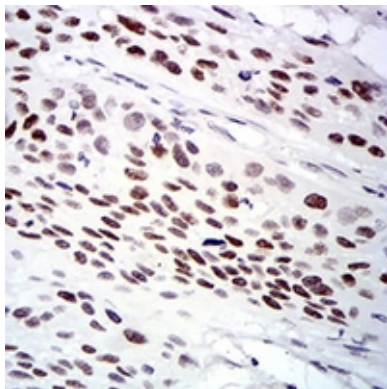
Protein Information

Name	UFD1 (HGNC:12520)
Synonyms	UFD1L
Function	Essential component of the ubiquitin-dependent proteolytic pathway which degrades ubiquitin fusion proteins. The ternary complex containing UFD1, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the export of misfolded proteins from the ER to the cytoplasm, where they are degraded by the proteasome. The NPLOC4-UFD1- VCP complex regulates spindle disassembly at the end of mitosis and is necessary for the formation of a closed nuclear envelope. It may be involved in the development of some ectoderm-derived structures (By similarity). Acts as a negative regulator of type I interferon production via the complex formed with VCP and NPLOC4, which binds to RIGI and recruits RNF125 to promote ubiquitination and degradation of RIGI (PubMed: 26471729).
Cellular Location	Nucleus {ECO:0000250 UniProtKB:Q9ES53}. Cytoplasm, cytosol {ECO:0000250 UniProtKB:Q9ES53}
Tissue Location	Found in adult heart, skeletal muscle and pancreas, and in fetal liver and

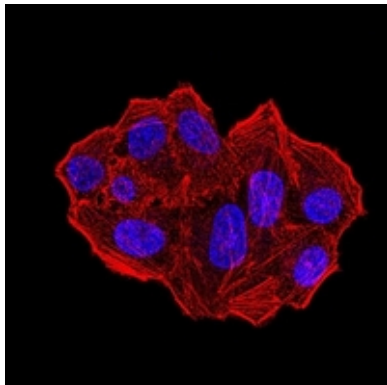
Images



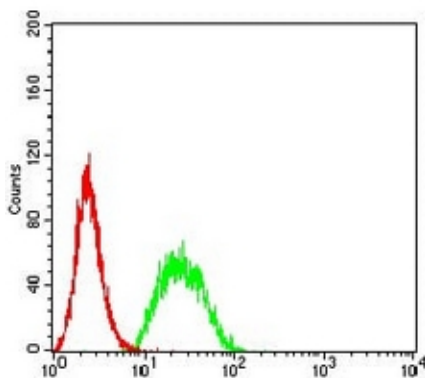
Western blot analysis of UFD1L expression in K562 (A), HeLa (B), A431 (C), PC2 (D), A549 (E) whole cell lysates. (Predicted band size: 35 kD; Observed band size: 50 kD)



Immunohistochemical analysis of UFD1L staining in human esophageal cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of UFD1L staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



Flow cytometric analysis of HeLa cells using Anti-UFD1L Antibody (green) and negative control (red).