

UCHL1 Mouse mAb

Catalog No: #64433

Package Size: #64433-1 50ul #64433-2 100ul

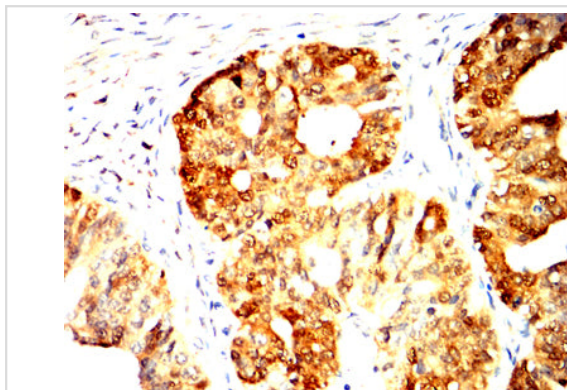
Description

Product Name	UCHL1 Mouse mAb
Host Species	Mouse
Clonality	Monoclonal
Clone No.	MR4528
Isotype	Mouse IgG2b
Applications	WB,IHC,IF,FC,ELISA
Species Reactivity	Human,Mouse,Rat
Immunogen Description	Purified recombinant fragment of human UCHL1 (AA: 1-220) expressed in E. Coli.
Target Name	UCHL1
Other Names	NDGOA; PARK5; PGP95; SPG79; PGP9.5; Uch-L1; HEL-117; PGP 9.5; HEL-S-53
Calculated MW	25KD
SDS-PAGE MW	29kDa
Formulation	Purified antibody in PBS with 0.05% sodium azide
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

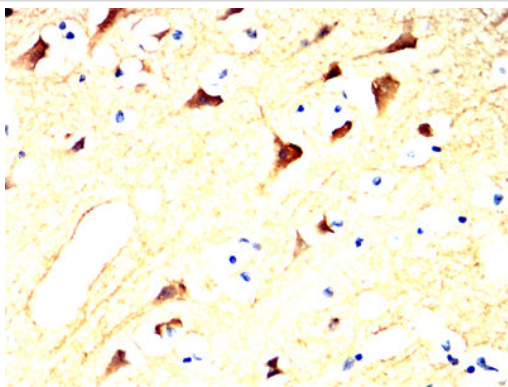
Application Details

WB 1:500-1:2000 IHC 1:200-1:1000 IF 1:50-1:200 FCM 1:200-1:400 ELISA 1:10000

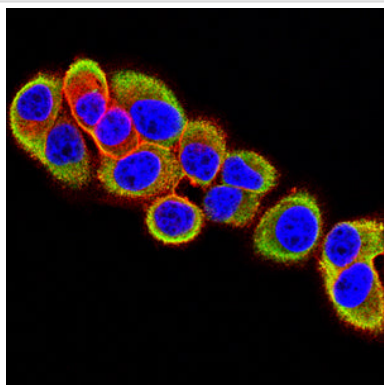
Images



Formalin-fixed, paraffin-embedded human ovarian cancer tissues stained for UCHL1 using 64433 at 1/100 dilution in immunohistochemical analysis.



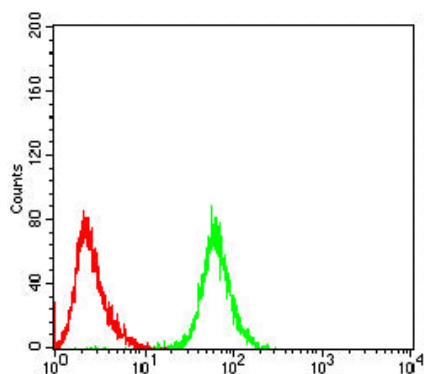
Formalin-fixed, paraffin-embedded human brain tissues stained for UCHL1 using 64433 at 1/100 dilution in immunohistochemical analysis.



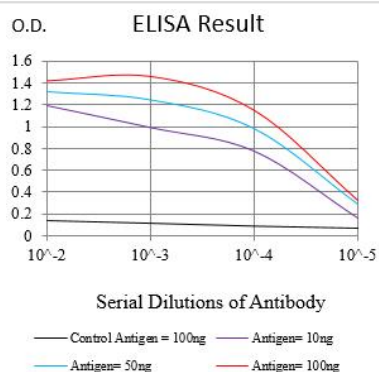
Immunocytochemistry/ Immunofluorescence UCHL1 antibody (64433) ICC/IF staining of UCHL1 in HeLa cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 64433 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti mouse, used at a dilution of 1/500. Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

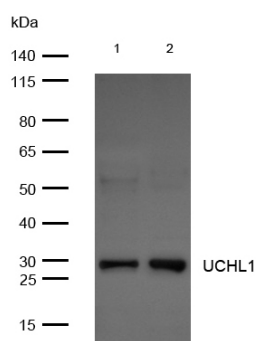
Nuclei were counterstained with DRAQ5 fluorescent DNA dye.



Flow Cytometry Calreticulin antibody (64433) Flow cytometric analysis of Hek293 cells with UCHL1 Mouse mAb at 1/50 dilution (green) compared with an unlabelled control (cells without incubation with primary antibody) red).



Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)



All lanes : UCHL1 Mouse mAb at 1/1k dilution Lane 1 : Mouse brain lysates

Lane 2 : Rat brain lysates

Lysates/proteins at 20 µg per lane. All lanes : Goat Anti-Mouse IgG H&L (HRP) at 1/20000 dilution Predicted band size: 25 kDa Observed band size: 29 kDa Exposure time: 4 seconds

Background

Deubiquitinase that plays a role in the regulation of several processes such as maintenance of synaptic function, cardiac function, inflammatory response or osteoclastogenesis (PubMed:22212137, PubMed:23359680).Abrogates the ubiquitination of multiple proteins including WWTR1/TAZ, EGFR, HIF1A and beta-site amyloid precursor protein cleaving enzyme 1/BACE1 (PubMed:22212137, PubMed:25615526).In addition, recognizes and hydrolyzes a peptide bond at the C-terminal glycine of ubiquitin to maintain a stable pool of monoubiquitin that is a key requirement for the ubiquitin-proteasome and the autophagy-lysosome pathways (PubMed:12408865, PubMed:8639624, PubMed:9774100).Regulates amyloid precursor protein/APP processing by promoting BACE1 degradation resulting in decreased amyloid beta production (PubMed:22212137).Plays a role in the immune response by regulating the ability of MHC I molecules to reach cross-presentation compartments competent for generating Ag-MHC I complexes (By similarity).Mediates the 'Lys-48'-linked deubiquitination of the transcriptional coactivator WWTR1/TAZ leading to its stabilization and inhibition of osteoclastogenesis (By similarity).Deubiquitinates and stabilizes epidermal growth factor receptor EGFR to prevent its degradation and to activate its downstream mediators (By similarity).Modulates oxidative activity in skeletal muscle by regulating key mitochondrial oxidative proteins (By similarity).Enhances the activity of hypoxia-inducible factor 1-alpha/HIF1A by abrogateing its VHL E3 ligase-mediated ubiquitination and consequently inhibiting its degradation (PubMed:25615526).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.