

DUSP6 Rabbit mAb

Catalog No: #48635



Package Size: #48635-1 50ul #48635-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

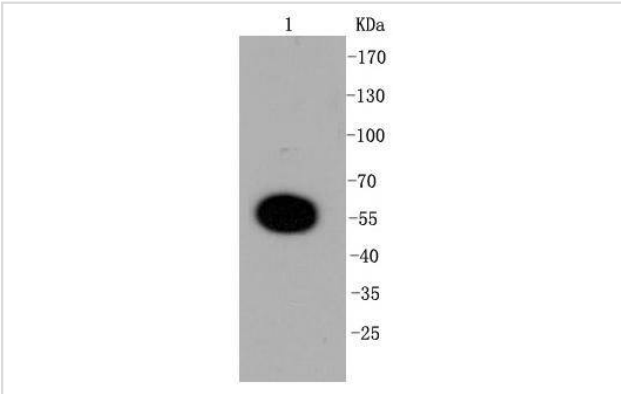
Description

Product Name	DUSP6 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SR39-09
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Dual specificity phosphatase 6 antibody Dual specificity phosphatase 6 isoform a antibody Dual specificity protein phosphatase 6 antibody Dual specificity protein phosphatase PYST1 antibody DUS6_HUMAN antibody DUSP 6 antibody DUSP 6a antibody Dusp6 antibody DUSP6a antibody HH19 antibody MAP kinase phosphatase 3 antibody Mitogen activated protein kinase phosphatase 3 antibody Mitogen-activated protein kinase phosphatase 3 antibody MKP 3 antibody MKP-3 antibody MKP3 antibody PYST 1 antibody PYST1 antibody Serine/threonine specific protein phosphatase antibody
Accession No.	Swiss-Prot#:Q16828
Calculated MW	42 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

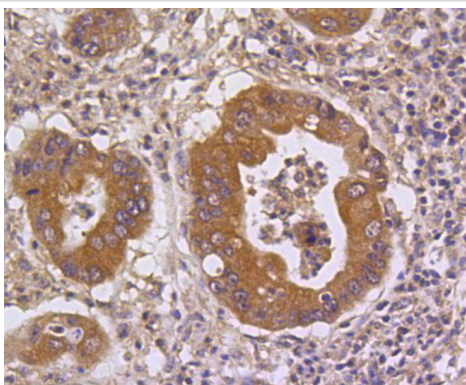
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

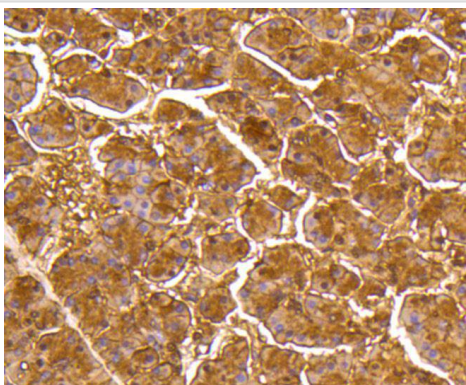
Images



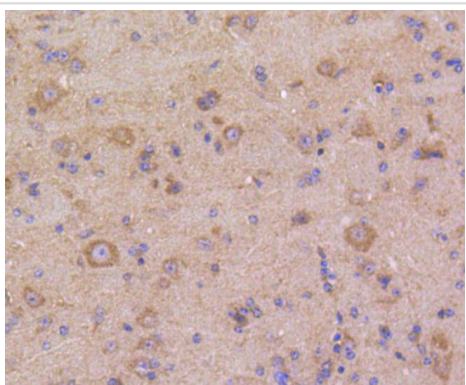
Western blot analysis of DUSP6 on mouse pancreas lysates using anti-DUSP6 antibody at 1/1,000 dilution.



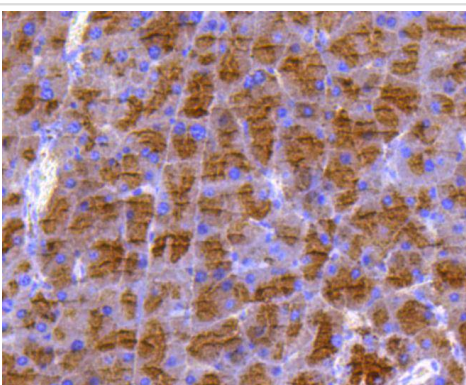
Immunohistochemical analysis of paraffin-embedded human gastric carcinoma tissue using anti-DUSP6 antibody. Counter stained with hematoxylin.



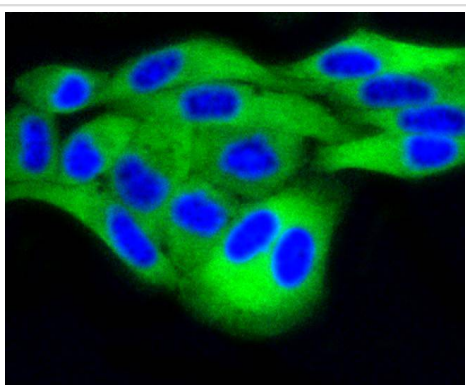
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-DUSP6 antibody. Counter stained with hematoxylin.



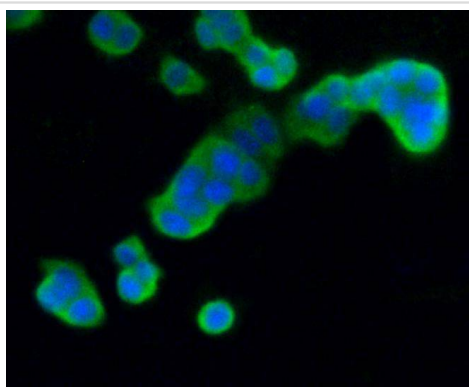
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-DUSP6 antibody. Counter stained with hematoxylin.



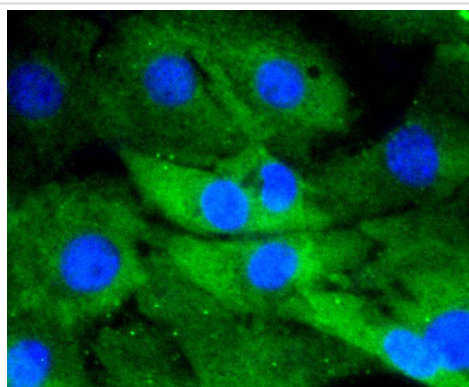
Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-DUSP6 antibody. Counter stained with hematoxylin.



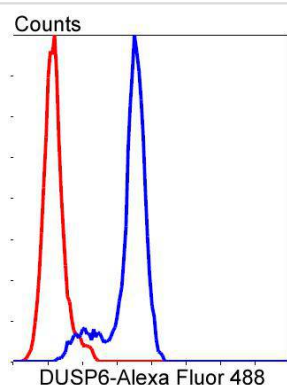
ICC staining DUSP6 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining DUSP6 in PC-12 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining DUSP6 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of NIH/3T3 cells with DUSP6 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Mitogen-activated protein (MAP) kinases are a large class of proteins involved in signal transduction pathways that are activated by a range of stimuli and mediate a number of physiological and pathological changes in the cell. Dual specificity phosphatases (DSPs) are a subclass of the protein tyrosine phosphatase (PTP) gene superfamily, which are selective for dephosphorylating critical phosphothreonine and phosphotyrosine residues within MAP kinases. DSP gene expression is induced by a host of growth factors and/or cellular stresses, thereby negatively regulating MAP kinase superfamily members including MAPK/ERK, SAPK/JNK and p38. The members of the dual-specificity phosphatase protein family include MKP-1/CL100 (3CH134), VHR, PAC1, MKP-2, hVH-3 (B23), hVH-5, MKP-3, MKP-X, and MKP-4. Human MKP-3 maps to chromosome 12q22-q23 and encodes a 381 amino acid protein that specifically inactivates members of the ERK family and is expressed in a variety of tissues with the highest levels in heart and pancreas.

References

1. Bertin S et al. Dual-specificity phosphatase 6 regulates CD4(+) T-cell functions and restrains spontaneous colitis in IL-10-deficient mice. *Mucosal Immunol* N/A:N/A (2014).
2. Wales S et al. Global MEF2 target gene analysis in cardiac and skeletal muscle reveals novel regulation of DUSP6 by p38MAPK-MEF2 signaling. *Nucleic Acids Res* 42:11349-62 (2014).

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