For Research Use Only

DUSP5 Recombinant monoclonal antibody

Catalog Number:88296-1-RR

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Antibodies | ELISA kits | Proteins
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Basic Information

Catalog Number:
88296-1-RR

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG32997

GenBank Accession Number:
NM_004419

GeneID (NCBI):
1847

UNIPROT ID:
Q16690

Full Name:
dual specificity phosphatase 5

Calculated MW:
42kd

Observed MW:
42-45 kDa

Purification Method:
Protein A purification

CloneNo.:
260738G11

Recommended Dilutions:
WB: 1:1000-1:4000

Applications

Tested Applications:
WB, ELISA

Species Specificity:
human, rat

Positive Controls:

WB : HCT 116 cells, K-562 cells, A549 cells, MDA-MB-231 cells, HL-60 cells, PC-12 cells

Background Information

DUSP5 (Dual specificity protein phosphatase 5) is also named as VH3. DUSP5, a member of DUSPs superfamily, is located in the nucleus and plays crucially regulatory roles in the signaling pathway transduction (PMID: 34169608). DUSP5 promotes the osteogenic differentiation of mesenchymal stromal cells (MSCs) by repressing SMAD1 signaling pathway in a SCP1/2 - dependent manner (PMID: 34169608). DUSP5, which specifically dephosphorylates extracellular signal-regulated kinase (ERK1/2), blocks pulmonary vascular smooth muscle cell proliferation (PMID: 34142888). DUSP5, an ERK1/2-specific endogenous phosphatase, was expressed at low levels in CRC (PMID: 36526622). DUSP5, a member of the DUSP subfamily, is known to regulate cellular inflammation (PMID: 33361528).

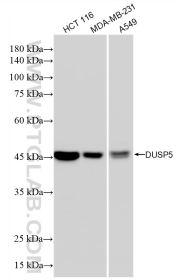
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

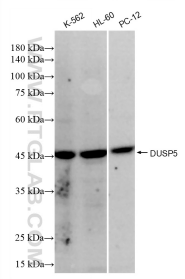
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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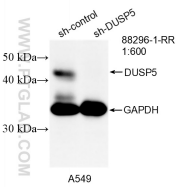
Selected Validation Data



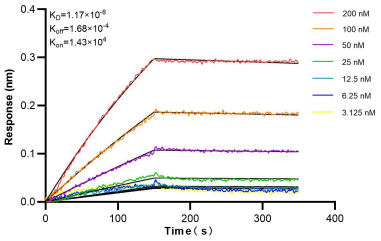
Various lysates were subjected to SDS PAGE followed by western blot with 88296-1-RR (DUSP5 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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WB result of DUSP5 antibody (88296-1-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-DUSP5 transfected A549 cells.



Biolayer interferometry (BLI) kinetic assays of 88296-1-RR against Human DUSP5 were performed. The affinity constant is 11.7 nM.