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

Size:
100ul , Concentration: 1000 μg/ml by Nanodrop;

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

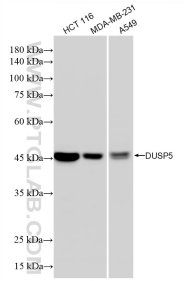
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

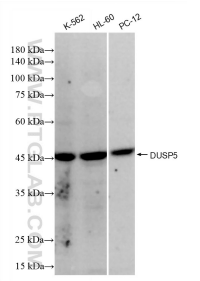
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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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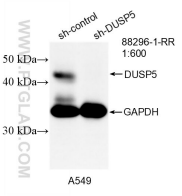
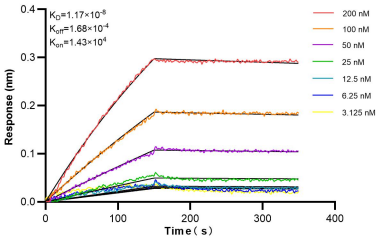


WB result of DUSP5 antibody (88296-1-RR; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-DUSP5 transfected A549 cells.



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