

For Research Use Only

# DUSP5 Polyclonal antibody

Catalog Number: 30256-1-AP



## Basic Information

**Catalog Number:**

30256-1-AP

**Size:**

150ul , Concentration: 450 ug/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 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:500-1:1000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

## Applications

**Tested Applications:**

WB, IP, ELISA

**Species Specificity:**

human

**Positive Controls:**

WB : A549 cells, HCT 116 cells

IP : A549 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

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

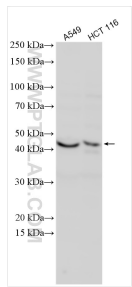
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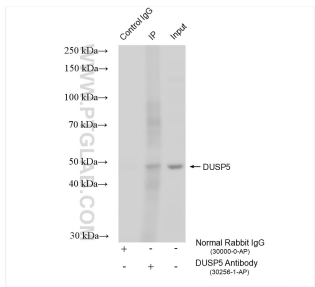
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30256-1-AP (DUSP5 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP result of anti-DUSP5 (IP:30256-1-AP, 4ug; Detection:30256-1-AP 1:500) with A549 cells lysate 1200 ug.