

**DUSP3 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8478a****Specification**

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**DUSP3 Antibody (N-term) - Product Information**

Application	IHC-P, WB,E
Primary Accession	<a href="#">P51452</a>
Other Accession	<a href="#">Q9D7X3</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	1-30

**DUSP3 Antibody (N-term) - Additional Information****Gene ID** 1845**Other Names**

Dual specificity protein phosphatase 3, Dual specificity protein phosphatase VHR, Vaccinia H1-related phosphatase, VHR, DUSP3, VHR

**Target/Specificity**

This DUSP3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DUSP3.

**Dilution**

IHC-P~~1:50~100

WB~~1:1000

E~~Use at an assay dependent concentration.

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DUSP3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DUSP3 Antibody (N-term) - Protein Information****Name** DUSP3

### Synonyms VHR

**Function** Shows activity both for tyrosine-protein phosphate and serine-protein phosphate, but displays a strong preference toward phosphotyrosines (PubMed:[10224087](#), PubMed:[11863439](#)). Specifically dephosphorylates and inactivates ERK1 and ERK2 (PubMed:[10224087](#), PubMed:[11863439](#)).

### Cellular Location

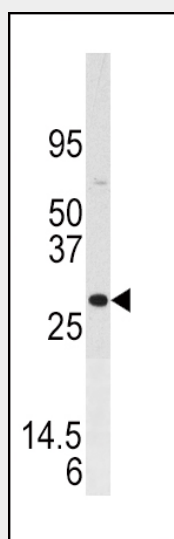
Nucleus. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q9D7X3}

### DUSP3 Antibody (N-term) - Protocols

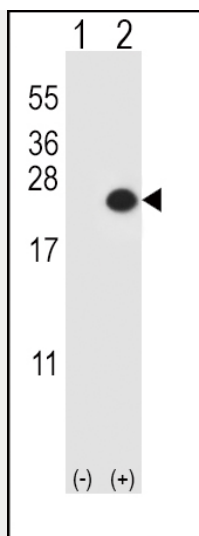
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

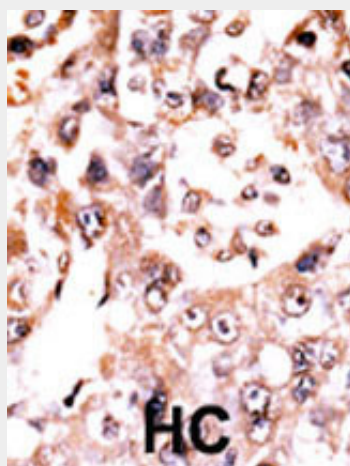
### DUSP3 Antibody (N-term) - Images



Western blot analysis of anti-DUSP3 Pab (Cat. #AP8478a) in SK-BR-3 cell line lysate. DUSP3 (arrow) was detected using the purified Pab.



Western blot analysis of DUSP3 (arrow) using rabbit polyclonal DUSP3 Antibody (E6) (Cat. #AP8478a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DUSP3 gene.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

#### **DUSP3 Antibody (N-term) - Background**

DUSP3 is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (MAP) kinase superfamily (MAPK/ERK, SAPK/JNK, p38), which are associated with cellular proliferation and differentiation. Different members of the family of dual specificity phosphatases show distinct substrate specificities for various MAP kinases, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli.

#### **DUSP3 Antibody (N-term) - References**

Alonso, A., et al., Nat. Immunol. 4(1):44-48 (2003).  
Alonso, A., et al., J. Biol. Chem. 276(7):4766-4771 (2001).  
Todd, J.L., et al., J. Biol. Chem. 274(19):13271-13280 (1999).

Kamb, A., et al., Genomics 23(1):163-167 (1994).

Folander, K., et al., Genomics 23(1):295-296 (1994).

**DUSP3 Antibody (N-term) - Citations**

- [Vaccinia H1-related phosphatase is a phosphatase of ErbB receptors and is down-regulated in non-small cell lung cancer.](#)