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DUSP3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8478a

Specification

DUSP3 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P51452
Other Accession	Q9D7X3
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
WB~~1:1000
IHC-P~~1:50~100

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).

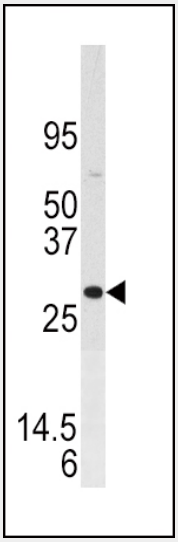
Cellular Location
Nucleus. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:Q9D7X3}

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 Cytomety
- 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.

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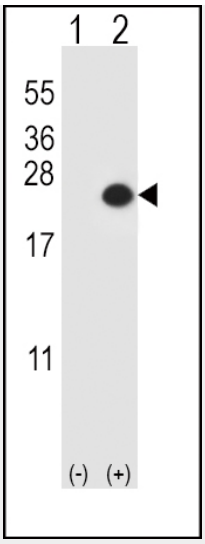
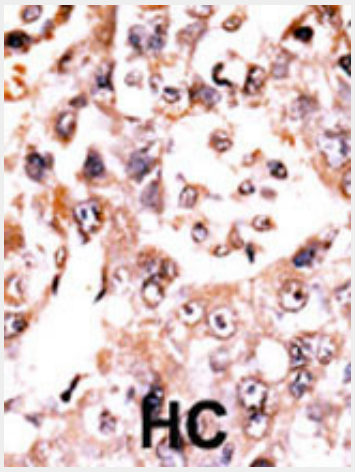


Western blot analysis of DUSP3 (arrow) using rabbit polyclonal DUSP3 Antibody (E6) (Cat. #AP8478a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DUSP3 gene.



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.