10320 Camino Santa Fe, Suite G
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DUSP4 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8447B

Specification

DUSP4 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q13115
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**42953**
Antigen Region	**331-361**

DUSP4 Antibody (C-term) - Additional Information

Gene ID 1846

Other Names
Dual specificity protein phosphatase 4, Dual specificity protein phosphatase hVH2, Mitogen-activated protein kinase phosphatase 2, MAP kinase phosphatase 2, MKP-2, DUSP4, MKP2, VH2

Target/Specificity
This DUSP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 331-361 amino acids from the C-terminal region of human DUSP4.

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
DUSP4 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DUSP4 Antibody (C-term) - Protein Information

Name DUSP4

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Synonyms MKP2, VH2

Function Regulates mitogenic signal transduction by dephosphorylating both Thr and Tyr residues on MAP kinases ERK1 and ERK2.

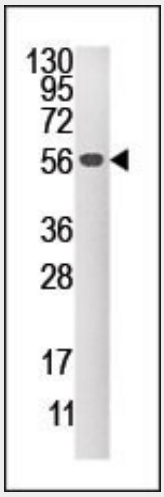
Cellular Location
Nucleus.

DUSP4 Antibody (C-term) - Protocols

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

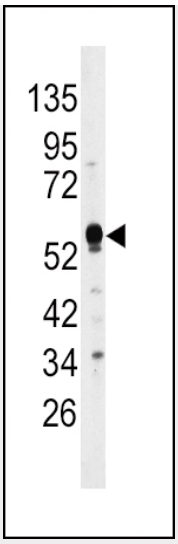
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DUSP4 Antibody (C-term) - Images

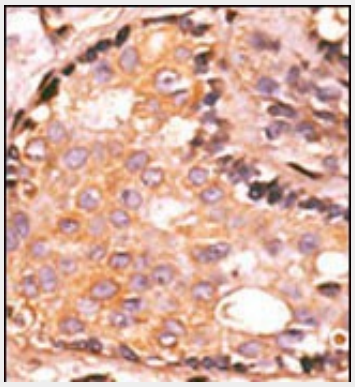


Western blot analysis of anti-DUSP4 Pab (Cat. #AP8447b) in mouse brain tissue lysate (35ug/lane). DUSP4(arrow) was detected using the purified Pab.

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Western blot analysis of anti-DUSP4 Antibody (C-term) (Cat.#AP8447b) in HepG2 cell line lysates (35ug/lane). DUSP4 (arrow) was detected using the purified Pab.



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.

DUSP4 Antibody (C-term) - Background

DUSP4 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. DUSP4 inactivates ERK1, ERK2 and JNK, is expressed in a variety of tissues, and is localized in the nucleus.

DUSP4 Antibody (C-term) - References

Chen, P., et al., J. Biol. Chem. 276(31):29440-29449 (2001).
Smith, A., et al., Genomics 42(3):524-527 (1997).
Chu, Y., et al., J. Biol. Chem. 271(11):6497-6501 (1996).
King, A.G., et al., Oncogene 11(12):2553-2563 (1995).
Guan, K.L., et al., J. Biol. Chem. 270(13):7197-7203 (1995).