10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DUSP14 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8456b

Specification

DUSP14 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	O95147
Other Accession	Q9JLY7
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**168-198**

DUSP14 Antibody (C-term) - Additional Information

Gene ID 11072

Other Names
Dual specificity protein phosphatase 14, MKP-1-like protein tyrosine phosphatase, MKP-L, Mitogen-activated protein kinase phosphatase 6, MAP kinase phosphatase 6, MKP-6, DUSP14, MKP6

Target/Specificity
This DUSP14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 168-198 amino acids from the C-terminal region of human DUSP14.

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
DUSP14 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DUSP14 Antibody (C-term) - Protein Information

Name DUSP14

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Synonyms MKP6

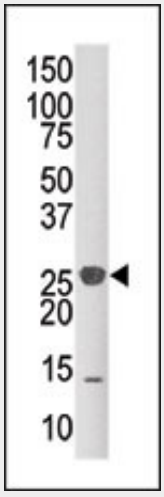
Function Involved in the inactivation of MAP kinases. Dephosphorylates ERK, JNK and p38 MAP-kinases. Plays a negative role in TCR signaling by dephosphorylating MAP3K7 adapter TAB1 leading to its inactivation (PubMed:24403530).

DUSP14 Antibody (C-term) - Protocols

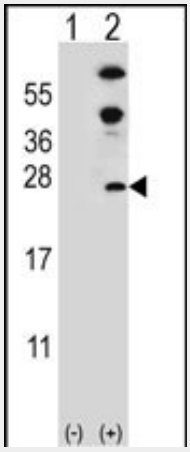
Provided below are standard protocols that you may find useful for product applications.

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

DUSP14 Antibody (C-term) - Images



Western blot analysis of anti-DUSP14 Pab (Cat. #AP8456b) in mouse kidney tissue lysate (35ug/lane). DUSP14(arrow) was detected using the purified Pab.



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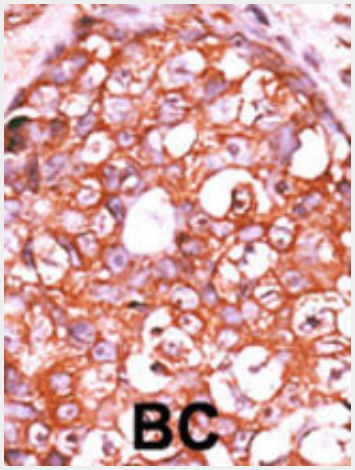
Western blot analysis of DUSP14 (arrow) using rabbit polyclonal DUSP14 Antibody (D183) (Cat. #AP8456b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DUSP14 gene.



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.

DUSP14 Antibody (C-term) - Background

DUSP14 is involved in the inactivation of MAP kinases. This proein dephosphorylates ERK, JNK and p38 MAP-kinases. In addition to antigen recognition by the T-cell receptor, T-cell activation requires a second signal from a costimulatory receptor, such as CD28, which interacts with B7-1 (CD80) and B7-2 (CD86) ligands on antigen-presenting cells. CD28 costimulation induces transcription of interleukin-2 and stabilizes newly synthesized IL2 through the activation of mitogen-activated protein kinases (MAPKs), such as ERK and JNK, and the subsequent creation of AP1 transcription factor. DUSP14 is a negative regulator of CD28 signaling.

DUSP14 Antibody (C-term) - References

Marti, F., et al., J. Immunol. 166(1):197-206 (2001).