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DUSP10 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8453a

Specification

DUSP10 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q9Y6W6
Other Accession	Q9ESS0, Q0IID7
Reactivity	**Human, Mouse**
Predicted	**Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**52642**
Antigen Region	**1-30**

DUSP10 Antibody (N-term) - Additional Information

Gene ID 11221

Other Names
Dual specificity protein phosphatase 10, Mitogen-activated protein kinase phosphatase 5, MAP kinase phosphatase 5, MKP-5, DUSP10, MKP5

Target/Specificity
This DUSP10 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human DUSP10.

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
DUSP10 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DUSP10 Antibody (N-term) - Protein Information

Name DUSP10

Synonyms MKP5

Function Protein phosphatase involved in the inactivation of MAP kinases. Has a specificity for the MAPK11/MAPK12/MAPK13/MAPK14 subfamily. It preferably dephosphorylates p38.

Cellular Location
Cytoplasm. Nucleus.

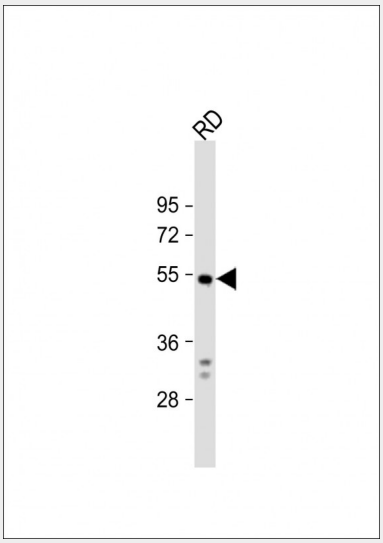
Tissue Location
Expressed in keratinocytes (at protein level) (PubMed:29043977). Detected in brain (PubMed:16806267)

DUSP10 Antibody (N-term) - Protocols

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

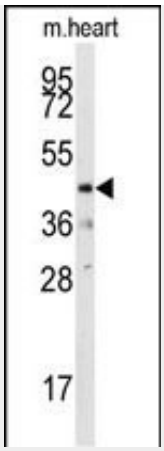
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DUSP10 Antibody (N-term) - Images

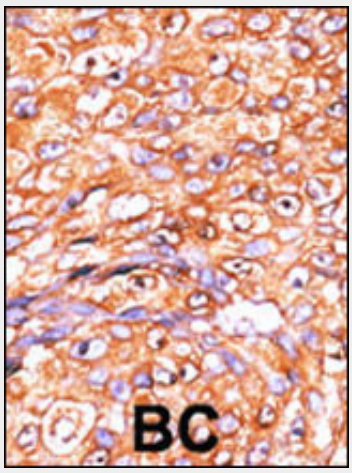


Anti-DUSP10 Antibody (N-term) at 1:1000 dilution + RD whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 53 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

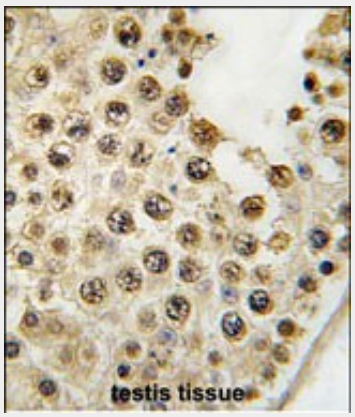
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Western blot analysis of anti-DUSP10 Pab (Cat. #AP8453a) in mouse heart tissue lysates (35ug/lane). DUSP10(arrow) was detected using the purified Pab.



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.



Formalin-fixed and paraffin-embedded human testis tissue reacted with DUSP10 Antibody (N-term) (Cat.#AP8453a), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

DUSP10 Antibody (N-term) - Background

Dual specificity protein phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the MAPK superfamily (MAPK/ERK, SAPK/JNK, p38), which is associated with cellular proliferation and differentiation. Different members of this family of dual specificity phosphatases show distinct substrate specificities for MAPKs, different tissue distribution and subcellular localization, and different modes of inducibility of their expression by extracellular stimuli. DUSP10 binds to and inactivates p38 and SAPK/JNK, but not MAPK/ERK. Its subcellular localization is unique; it is evenly distributed in both the cytoplasm and the nucleus. The protein is widely expressed in various tissues and organs, and its expression is elevated by stress stimuli.

DUSP10 Antibody (N-term) - References

Tanoue, T., et al., J. Biol. Chem. 274(28):19949-19956 (1999).
Theodosiou, A., et al., Oncogene 18(50):6981-6988 (1999).
Martell, K.J., et al., Mol. Cells 8(1):2-11 (1998).
Masuda, K., et al., Cytogenet. Cell Genet. 90 (1-2), 71-74 (2000) (): ().