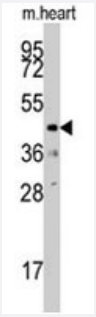
DUSP10 polyclonal antibody

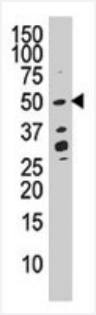
Catalog # PAB4136 Size 400 uL

Applications



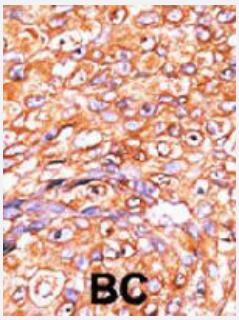
Western Blot (Tissue lysate)

Western blot analysis of DUSP10 polyclonal antibody (Cat # PAB4136) in mouse heart tissue lysates (35 ug/lane). DUSP10 (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).



Western Blot (Cell lysate)

Western blot analysis of DUSP10 polyclonal antibody (Cat # PAB4136) in CEM cell lysate (35 ug/lane). DUSP10 (arrow) was detected using the purified polyclonal antibody (1 : 60 dilution).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast cancer tissue reacted with DUSP10 polyclonal antibody (Cat # PAB4136) , 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.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of DUSP10.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human DUSP10.

Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:1000) Western Blot (1:100-500) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — DUSP10

Entrez GeneID	11221
Protein Accession#	NP_009138;Q9Y6W6

Gene Name	DUSP10
Gene Alias	MKP-5, MKP5
Gene Description	dual specificity phosphatase 10
Omim ID	608867
Gene Ontology	Hyperlink
Gene Summary	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. This gene product 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. This gene is widely expressed in various tissues and organs, and its expression is elevated by stress stimuli. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000035380|dual specificity phosphatase MKP-5|map kinase phosphatase 5|serine/threonine specific protein phosphatase

Publication Reference

- MKP5, a new member of the MAP kinase phosphatase family, which selectively dephosphorylates stress-activated kinases.

  Theodosiou A, Smith A, Gillieron C, Arkinstall S, Ashworth A.

  Oncogene 1999 Nov; 18(50):6981.

- Molecular cloning and characterization of a novel dual specificity phosphatase, MKP-5.

  Tanoue T, Moriguchi T, Nishida E.

  The Journal of Biological Chemistry 1999 Jul; 274(28):19949.

- The "VH1-like" dual-specificity protein tyrosine phosphatases.

  Martell KJ, Angelotti T, Ullrich A.

  Molecules and Cells 1998 Feb; 8(1):2.

Pathway

- MAPK signaling pathway

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
- Edema
- Tobacco Use Disorder