

MKP3 / DUSP6 Antibody (clone 3G2)
Mouse Monoclonal Antibody
Catalog # ALS13302**Specification**

MKP3 / DUSP6 Antibody (clone 3G2) - Product Information

Application	WB, IHC-P, IF, E, RNAi
Primary Accession	Q16828
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	42kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IF~~1:50~200 E~~N/A RNAi~~N/A

MKP3 / DUSP6 Antibody (clone 3G2) - Additional Information**Gene ID** 1848**Other Names**

Dual specificity protein phosphatase 6, 3.1.3.16, 3.1.3.48, Dual specificity protein phosphatase PYST1, Mitogen-activated protein kinase phosphatase 3, MAP kinase phosphatase 3, MKP-3, DUSP6, MKP3, PYST1

Reconstitution & Storage

Store at -20°C. Aliquot to avoid freeze/thaw cycles.

Precautions

MKP3 / DUSP6 Antibody (clone 3G2) is for research use only and not for use in diagnostic or therapeutic procedures.

MKP3 / DUSP6 Antibody (clone 3G2) - Protein Information**Name** DUSP6**Synonyms** MKP3, PYST1**Function**

Dual specificity protein phosphatase, which mediates dephosphorylation and inactivation of MAP kinases (PubMed:8670865). Has a specificity for the ERK family (PubMed:8670865). Plays an important role in alleviating chronic postoperative pain (By similarity). Necessary for the normal dephosphorylation of the long-lasting phosphorylated forms of spinal MAPK1/3 and MAP kinase p38 induced by peripheral surgery, which drives the resolution of acute postoperative allodynia (By

similarity). Also important for dephosphorylation of MAPK1/3 in local wound tissue, which further contributes to resolution of acute pain (By similarity). Promotes cell differentiation by regulating MAPK1/MAPK3 activity and regulating the expression of AP1 transcription factors (PubMed:29043977).

Cellular Location

Cytoplasm.

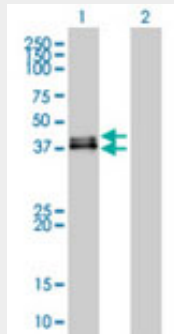
Tissue Location

Expressed in keratinocytes (at protein level).

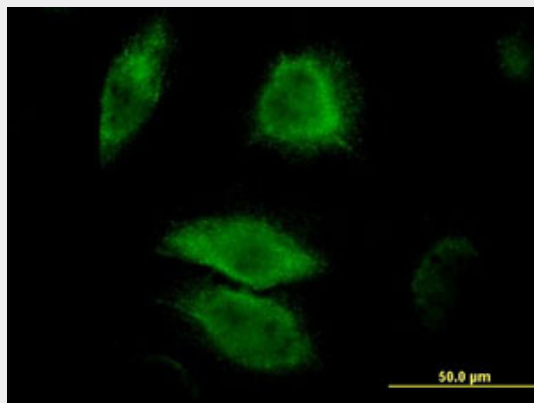
MKP3 / DUSP6 Antibody (clone 3G2) - Protocols

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

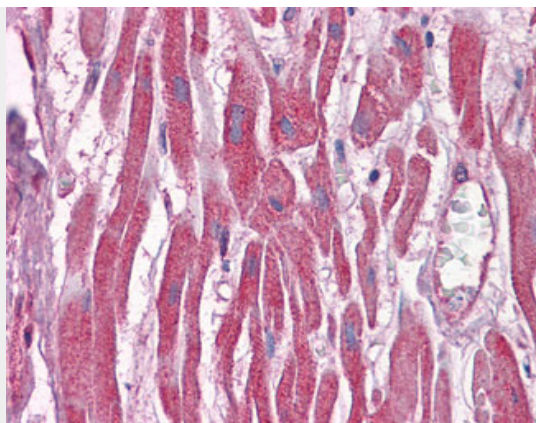
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

MKP3 / DUSP6 Antibody (clone 3G2) - Images

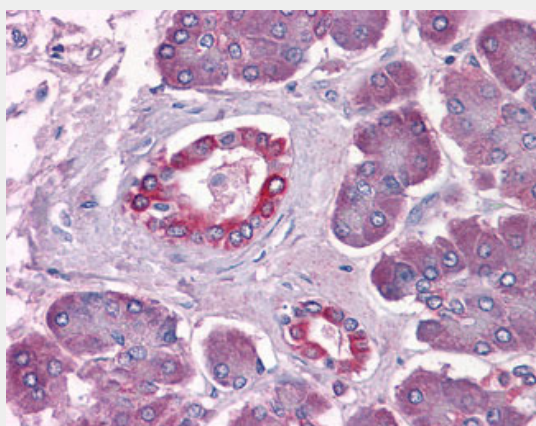
Western blot of DUSP6 expression in transfected 293T cell line by DUSP6 monoclonal antibody,...



Immunofluorescence of monoclonal antibody to DUSP6 on HeLa cell (antibody concentration 10 ug/ml).



Anti-DUSP6 antibody IHC of human heart.



Anti-DUSP6 antibody IHC of human pancreas.

MKP3 / DUSP6 Antibody (clone 3G2) - Background

Inactivates MAP kinases. Has a specificity for the ERK family.

MKP3 / DUSP6 Antibody (clone 3G2) - References

Groom L.A., et al. EMBO J. 15:3621-3632(1996).
Furukawa T., et al. Cytogenet. Cell Genet. 82:156-159(1998).
Kalnine N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Stewart A.E., et al. Nat. Struct. Biol. 6:174-181(1999).
Miraoui H., et al. Am. J. Hum. Genet. 92:725-743(2013).