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DUSP6 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant DUSP6.
Catalog # AT1830a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q16828
Other Accession	BC003143
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3G2
Calculated MW	42320

Additional Information

Gene ID	1848
Other Names	Dual specificity protein phosphatase 6, Dual specificity protein phosphatase PYST1, Mitogen-activated protein kinase phosphatase 3, MAP kinase phosphatase 3, MKP-3, DUSP6, MKP3, PYST1
Target/Specificity	DUSP6 (AAH03143, 1 a.a. ~ 381 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	DUSP6 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

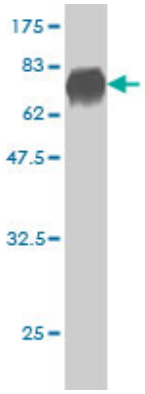
The protein encoded by this gene is a member of the dual specificity protein phosphatase subfamily. These phosphatases inactivate their target kinases by dephosphorylating both the phosphoserine/threonine and phosphotyrosine residues. They negatively regulate members of the mitogen-activated protein (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. This gene product inactivates ERK2, is expressed in a variety of tissues with the highest levels in heart and pancreas, and unlike most other members of this family, is localized in the cytoplasm. Two transcript variants encoding different isoforms have been found for

this gene.

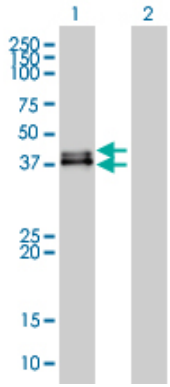
References

1.Dual specificity phosphatase 6 as a predictor of invasiveness in papillary thyroid cancer.Lee JU, Huang S, Lee MH, Lee SE, Ryu MJ, Kim SJ, Kim YK, Kim SY, Joung KH, Kim JM, Shong M, Jo YS.Eur J Endocrinol. 2012 Jul;167(1):93-101. Epub 2012 Apr 25.2.Down-Regulation of DUSP6 Expression in Lung Cancer: Its Mechanism and Potential Role in Carcinogenesis.Okudela K, Yazawa T, Woo T, Sakaeda M, Ishii J, Mitsui H, Shimoyamada H, Sato H, Tajiri M, Ogawa N, Masuda M, Takahashi T, Sugimura H, Kitamura H.Am J Pathol. 2009 Aug;175(2):867-81. Epub 2009 Jul 16.

Images

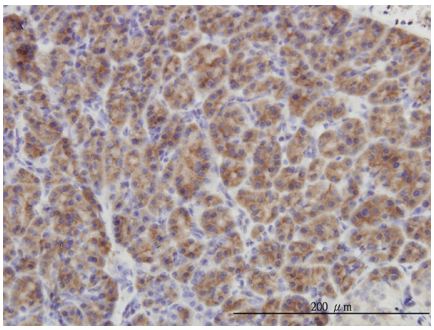


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (67.65 KDa) .



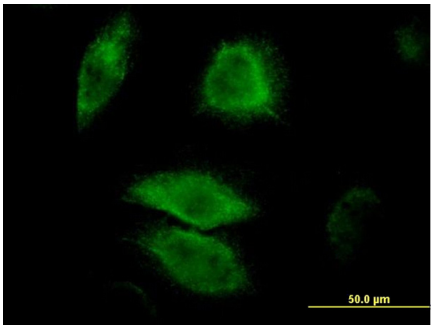
Western Blot analysis of DUSP6 expression in transfected 293T cell line by DUSP6 monoclonal antibody (M01), clone 3G2.

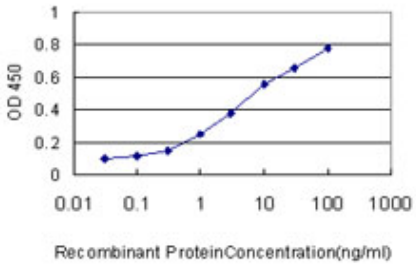
Lane 1: DUSP6 transfected lysate(42 KDa).
Lane 2: Non-transfected lysate.



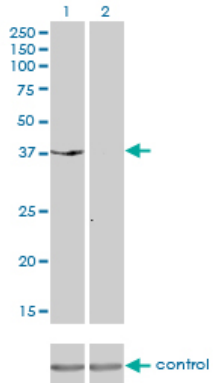
Immunoperoxidase of monoclonal antibody to DUSP6 on formalin-fixed paraffin-embedded human pancreas. [antibody concentration 3 ug/ml]

Immunofluorescence of monoclonal antibody to DUSP6 on HeLa cell. [antibody concentration 10 ug/ml]





Detection limit for recombinant GST tagged DUSP6 is approximately 1ng/ml as a capture antibody.



Western blot analysis of DUSP6 over-expressed 293 cell line, cotransfected with DUSP6 Validated Chimera RNAi ((Cat # AT1830a)