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DUSP5 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant DUSP5.
Catalog # AT1828a

Specification

DUSP5 Antibody (monoclonal) (M03) - Product Information

Application	**IF, WB, E**
Primary Accession	Q16690
Other Accession	NM_004419
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 Kappa**
Calculated MW	**42047**

DUSP5 Antibody (monoclonal) (M03) - Additional Information

Gene ID 1847

Other Names
Dual specificity protein phosphatase 5, Dual specificity protein phosphatase hVH3, DUSP5, VH3

Target/Specificity
DUSP5 (NP_004410, 286 a.a. ~ 384 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
DUSP5 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

DUSP5 Antibody (monoclonal) (M03) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

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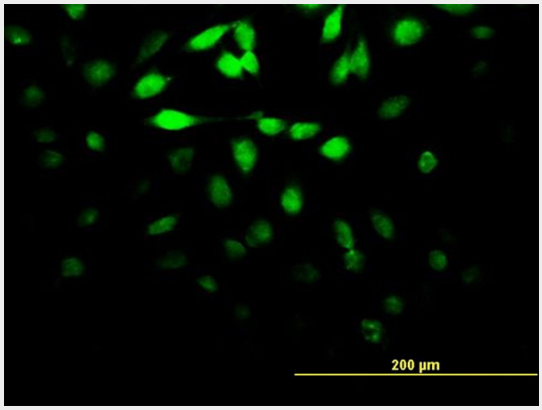
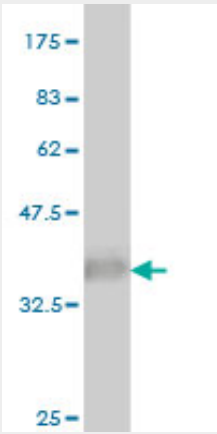
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

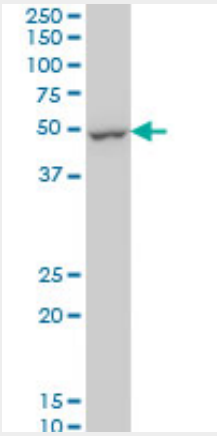
DUSP5 Antibody (monoclonal) (M03) - Images



Immunofluorescence of monoclonal antibody to DUSP5 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



DUSP5 monoclonal antibody (M03), clone 4C8 Western Blot analysis of DUSP5 expression in K-562 ((Cat # AT1828a)

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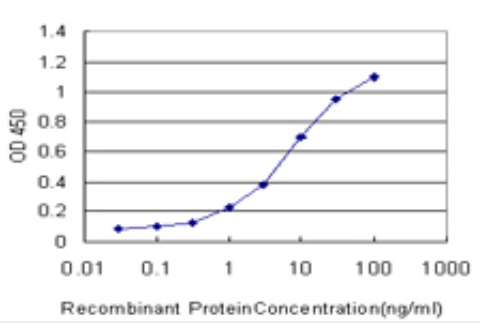

Detection limit for recombinant GST tagged DUSP5 is approximately 0.3ng/ml as a capture antibody.

DUSP5 Antibody (monoclonal) (M03) - 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 ERK1, is expressed in a variety of tissues with the highest levels in pancreas and brain, and is localized in the nucleus.

DUSP5 Antibody (monoclonal) (M03) - References

Evaluation of candidate stromal epithelial cross-talk genes identifies association between risk of serous ovarian cancer and TERT, a cancer susceptibility hot-spot. Johnatty SE, et al. PLoS Genet, 2010 Jul 8. PMID 20628624.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Macrophage differentiation of myeloid progenitor cells in response to M-CSF is regulated by the dual-specificity phosphatase DUSP5. Grasset MF, et al. J Leukoc Biol, 2010 Jan. PMID 19801501.Dusp-5 and Snrk-1 coordinately function during vascular development and disease. Pramanik K, et al. Blood, 2009 Jan 29. PMID 18927432.