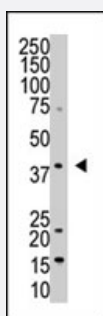


DUSP1 polyclonal antibody

Catalog # PAB4162

Size 100 uL

Applications



Western Blot (Cell lysate)

The DUSP1 polyclonal antibody (Cat # PAB4162) is used in Western blot to detect DUSP1 in 293 cell lysate.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of DUSP1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to amino acids 318-367 of human DUSP1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	ELISA (1:20000) Immunohistochemistry (1:100) Western Blot (1:500-2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (50% glycerol, 0.5% BSA, 0.02% 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 should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

The DUSP1 polyclonal antibody (Cat # PAB4162) is used in Western blot to detect DUSP1 in 293 cell lysate.

- Immunohistochemistry

- Enzyme-linked Immunoabsorbent Assay

Gene Info — DUSP1

Entrez GeneID	1843
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Protein Accession#	P28562
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Gene Name	DUSP1
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Gene Alias	CL100, HVH1, MKP-1, MKP1, PTPN10
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Gene Description	dual specificity phosphatase 1
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Omim ID	600714
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Gene Ontology	Hyperlink
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Gene Summary	The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence similarity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacterially expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inactivates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of both its phosphothreonine and phosphotyrosine residues. Furthermore, it suppresses the activation of MAP kinase by oncogenic ras in extracts of Xenopus oocytes. Thus, DUSP1 may play an important role in the human cellular response to environmental stress as well as in the negative regulation of cellular proliferation. [provided by RefSeq]
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Other Designations	serine/threonine specific protein phosphatase
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Publication Reference

- [Glucocorticoid receptor-induced MAPK phosphatase-1 \(MPK-1\) expression inhibits paclitaxel-associated MAPK activation and contributes to breast cancer cell survival.](#)

Wu W, Pew T, Zou M, Pang D, Conzen SD.

The Journal of Biological Chemistry 2005 Feb; 280(6):4117.

Application: WB, Human, MDA-MB-231 cells

- [Evidence that mitogen-activated protein kinase phosphatase-1 induction by proteasome inhibitors plays an antiapoptotic role.](#)

Small GW, Shi YY, Edmund NA, Somasundaram S, Moore DT, Orlowski RZ.

Molecular Pharmacology 2004 Dec; 66(6):1478.

Application: IHC, WB, Human, Mouse, BT-474 cells, Mouse tumors

- [Role of CL-100, a dual specificity phosphatase, in thrombin-induced endothelial cell activation.](#)

Chandrasekharan UM, Yang L, Walters A, Howe P, DiCorleto PE.

The Journal of Biological Chemistry 2004 Nov; 279(45):46678.

Application: IP, Human, HUVECs

Pathway

- [MAPK signaling pathway](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)

- [Multiple Sclerosis](#)