DUSP1 polyclonal antibody

Catalog # PAB6062 Size 100 ug

Applications



Western Blot (Cell lysate)

DUSP1 polyclonal antibody (Cat # PAB6062) staining (2 ug/mL) of HeLa lysate (RIPA buffer, 35 ug total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

DUSP1 polyclonal antibody (Cat # PAB6062, 3.8 ug/mL) staining of paraffin embedded human prostate. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

Specification	
Product Description	Goat polyclonal antibody raised against synthetic peptide of DUSP1.
Immunogen	A synthetic peptide corresponding to C-terminus of human DUSP1.
Sequence	SYLQSPITTSPSC
Host	Goat
Theoretical MW (kDa)	39.3
Reactivity	Human, Mouse, Rat
Form	Liquid

😵 Abnova

Product Information

Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Recommend Usage	ELISA (1:32000)
	Western blot (0.3-1 ug/mL)
	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (3-5 ug/mL)
	The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	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.

Applications

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• Enzyme-linked Immunoabsorbent Assay

Gene Info — DUSP1	
Entrez GenelD	<u>1843</u>
Protein Accession#	<u>NP_004408.1</u>
Gene Name	DUSP1
Gene Alias	CL100, HVH1, MKP-1, MKP1, PTPN10
Gene Description	dual specificity phosphatase 1
Omim ID	<u>600714</u>
Gene Ontology	<u>Hyperlink</u>



Product Information

Gene SummaryThe 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-recepto
r-type protein-tyrosine phosphatase family, and which has significant amino-acid sequence simila
rity to a Tyr/Ser-protein phosphatase encoded by the late gene H1 of vaccinia virus. The bacteriall
y expressed and purified DUSP1 protein has intrinsic phosphatase activity, and specifically inacti
vates mitogen-activated protein (MAP) kinase in vitro by the concomitant dephosphorylation of bo
th 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 impo
rtant role in the human cellular response to environmental stress as well as in the negative regulati
on of cellular proliferation. [provided by RefSeqOther Designationsserine/threonine specific protein phosphatase

Publication Reference

• The human CL100 gene encodes a Tyr/Thr-protein phosphatase which potently and specifically inactivates MAP kinase and suppresses its activation by oncogenic ras in Xenopus oocyte extracts.

Alessi DR, Smythe C, Keyse SM.

Oncogene 1993 Jul; 8(7):2015.

Pathway

• MAPK signaling pathway

Disease

- Arthritis
- Asthma
- <u>Cardiovascular Diseases</u>
- Diabetes Mellitus
- Edema
- Genetic Predisposition to Disease
- Kidney Failure
- Lung Neoplasms
- Multiple Sclerosis