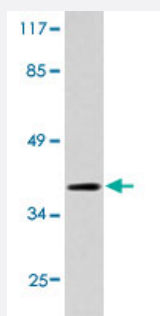


DUSP1 polyclonal antibody

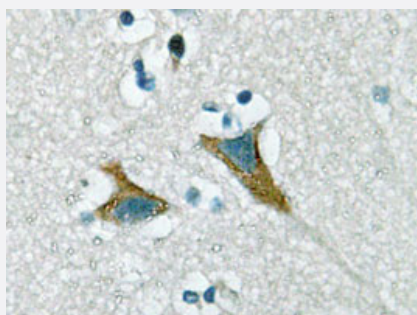
Catalog # PAB24852 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of Jurkat cell lysate with DUSP1 polyclonal antibody (Cat # PAB24852).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using DUSP1 polyclonal antibody (Cat # PAB24852).

Specification

| | |
|-----------------------------|---|
| Product Description | Rabbit polyclonal antibody raised against synthetic peptide of DUSP1. |
| Immunogen | A synthetic peptide corresponding to DUSP1. |
| Host | Rabbit |
| Theoretical MW (kDa) | 39 |
| Reactivity | Human |
| Specificity | DUSP1 polyclonal antibody detects endogenous levels of DUSP1 protein. |
| Form | Liquid |

| | |
|---------------------|--|
| Purification | Antigen affinity purification |
| Concentration | 1 mg/mL |
| Purity | > 95% by SDS-PAGE |
| Recommend Usage | Western Blot (1:500-1000) Immunohistochemistry (1:50-1:200) The optimal working dilution should be determined by the end user. |
| Storage Buffer | In 1x PBS, pH 7.2 (0.05% 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)

Western blot analysis of Jurkat cell lysate with DUSP1 polyclonal antibody (Cat # PAB24852).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human brain tissue using DUSP1 polyclonal antibody (Cat # PAB24852).

Gene Info — DUSP1

| | |
|------------------|----------------------------------|
| Entrez GeneID | 1843 |
| Gene Name | DUSP1 |
| Gene Alias | CL100, HVH1, MKP-1, MKP1, PTPN10 |
| Gene Description | dual specificity phosphatase 1 |
| Omim ID | 600714 |
| Gene Ontology | Hyperlink |

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]

Other Designations

serine/threonine specific protein phosphatase

Pathway

- [MAPK signaling pathway](#)

Disease

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