

# Anti-DUSP1 Antibody

Catalog # AP59999

## Product Information

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|-------------------|-------------------------------------------|
| Application       | WB, IHC                                   |
| Primary Accession | <a href="#">P28562</a>                    |
| Reactivity        | Human, Mouse, Rat, Chicken, Bovine, Sheep |
| Host              | Rabbit                                    |
| Clonality         | Polyclonal                                |
| Calculated MW     | 39298                                     |

## Additional Information

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|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene ID            | 1843                                                                                                                                                                                                                             |
| Other Names        | CL100; MKP1; PTPN10; VH1; Dual specificity protein phosphatase 1; Dual specificity protein phosphatase hVH1; Mitogen-activated protein kinase phosphatase 1; MAP kinase phosphatase 1; MKP-1; Protein-tyrosine phosphatase CL100 |
| Target/Specificity | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DUSP1. The exact sequence is proprietary.                                                                                             |
| Dilution           | WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200)                                                                                                                                       |
| Format             | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.                                                                                                                        |
| Storage            | Store at -20 °C.Stable for 12 months from date of receipt                                                                                                                                                                        |

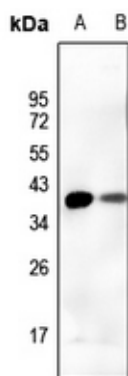
## Protein Information

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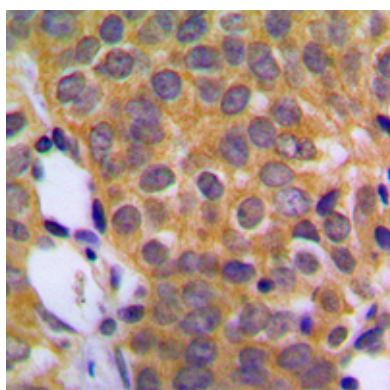
|                   |                                                                                                                                                                      |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name              | DUSP1 ( <a href="#">HGNC:3064</a> )                                                                                                                                  |
| Function          | Dual specificity phosphatase that dephosphorylates MAP kinase MAPK1/ERK2 on both 'Thr-183' and 'Tyr-185', regulating its activity during the meiotic cell cycle.     |
| Cellular Location | Nucleus {ECO:0000250 UniProtKB:Q91790}.                                                                                                                              |
| Tissue Location   | Expressed at high levels in the lung, liver placenta and pancreas. Moderate levels seen in the heart and skeletal muscle. Lower levels found in the brain and kidney |

## Images

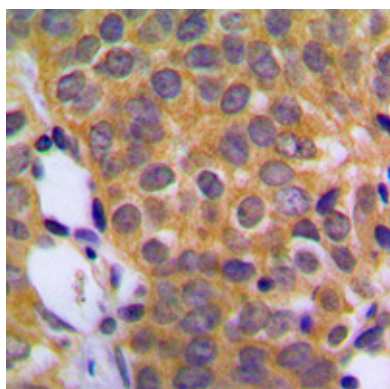
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Western blot analysis of DUSP1 expression in rat liver (A), mouse liver (B) whole cell lysates. (Predicted band size: 39 kD; Observed band size: 40 kD)



Immunohistochemical analysis of DUSP1 staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.