

## ARG63167 anti-DUSP1 antibody

Package: 100 µg  
Store at: -20°C

### Summary

Product Description	Goat Polyclonal antibody recognizes DUSP1
Tested Reactivity	Hu
Predict Reactivity	Ms, Rat, Cow, Dog
Tested Application	IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	DUSP1
Species	Human
Immunogen	SYLQSPITTSPSC
Conjugation	Un-conjugated
Alternate Names	PTPN10; MKP-1; MKP1; MAP kinase phosphatase 1; CL100; EC 3.1.3.16; Mitogen-activated protein kinase phosphatase 1; HVH1; Dual specificity protein phosphatase hvh1; Dual specificity protein phosphatase 1; EC 3.1.3.48; Protein-tyrosine phosphatase CL100

### Application Instructions

Application table	Application	Dilution
	IHC-P	8 µg/ml
	WB	1 - 3 µg/ml
Application Note	WB: Recommend incubate at RT for 1h. IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

### Properties

Form	Liquid
Purification	Purified from goat serum by antigen affinity chromatography.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Database links

[GeneID: 1843 Human](#)

[Swiss-port # P28562 Human](#)

Background

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, Jul 2008]

Research Area

Signaling Transduction antibody

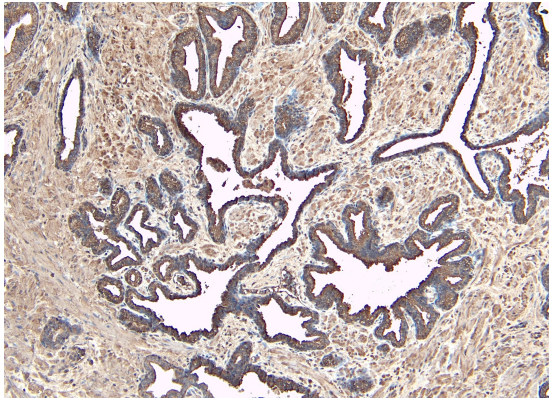
Calculated Mw

39 kDa

PTM

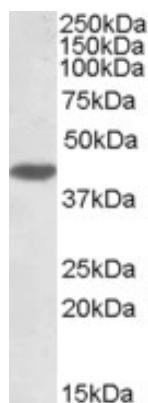
Phosphorylation at Ser-359 and Ser-364 by MAPK1/ERK2 and MAPK3/ERK1 reduces its rate of degradation.

## Images



ARG63167 anti-DUSP1 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human prostate tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0). The tissue section was stained with ARG63167 anti-DUSP1 antibody at 8 µg/ml dilution followed by HRP-staining.



ARG63167 anti-DUSP1 antibody WB image

Western blot: 35 µg of HeLa cell lysate (in RIPA buffer) stained with ARG63167 anti-DUSP1 antibody at 1 µg/ml dilution and incubated at RT for 1 hour.