info@arigobio.com

# ARG41328
# anti-DUSP1 antibody

Package: 100 µl
Store at: -20°C

## Summary

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|---|---|
| Product Description | Rabbit Polyclonal antibody recognizes DUSP1 |
| Tested Reactivity | Hu, Ms, Rat |
| Tested Application | FACS, ICC/IF, IHC-P, IP, WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | IgG |
| Target Name | DUSP1 |
| Species | Human |
| Immunogen | Synthetic peptide derived from Human DUSP1. |
| 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 |
|---|---|
| FACS | 1:50 |
| ICC/IF | 1:50 - 1:200 |
| IHC-P | 1:50 - 1:200 |
| IP | 1:50 |
| WB | 1:500 - 1:2000 |

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| Application Note | * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |
| Observed Size | ~ 45 kDa |

## Properties

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| Form | Liquid |
| Purification | Affinity purified. |
| Buffer | PBS (pH 7.4), 150 mM NaCl, 0.02% Sodium azide and 50% Glycerol. |
| Preservative | 0.02% Sodium azide |
| Stabilizer | 50% Glycerol |

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| 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. 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

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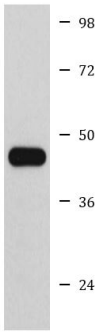
|---|---|
| Gene Symbol | DUSP1 |
| Gene Full Name | dual specificity phosphatase 1 |
| Background | The expression of DUSP1 gene is induced in human skin fibroblasts by oxidative/heat stress and growth factors. It specifies a protein with structural features similar to members of the non-receptor-type 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] |
| 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. [UniProt] |
| Calculated Mw | 39 kDa |
| PTM | Phosphorylation at Ser-359 and Ser-364 by MAPK1/ERK2 and MAPK3/ERK1 reduces its rate of degradation. [UniProt] |
| Cellular Localization | Nucleus. [UniProt] |

## Images




ARG41328 anti-DUSP1 antibody WB image

Western blot: HeLa cell lysate stained with ARG41328 anti-DUSP1 antibody.