# DUSP1 (Human) Cell-Based ELISA Kit

Catalog # KA3000 Size 1 Kit

## Specification

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| **Product Description** | DUSP1 (Human) Cell-Based ELISA Kit is an indirect enzyme-linked immunoassay for qualitative det ermination of DUSP1 expression in cultured cells. |
| **Suitable Sample** | Attached Cell, Loosely Attached Cell, Suspension Cell |
| **Label** | HRP-conjugated |
| **Detection Method** | Colorimetric |
| **Assay Type** | Qualitative |
| **Reactivity** | Human |
| **Regulation Status** | For research use only (RUO) |
| **Storage Instruction** | Store the kit at 4°C. |

## Applications

- Qualitative

## Gene Info — DUSP1

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| **Entrez GeneID** | 1843 |
| **Protein Accession#** | P28562 |
| **Gene Name** | DUSP1 |
| **Gene Alias** | CL100, HVH1, MKP-1, MKP1, PTPN10 |
| **Gene Description** | dual specificity phosphatase 1 |

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| **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