

# STAT1 protein

CatalogNo: YD0097

## Key Features

### Reactivity

- Human

## Storage

**Storage\*** -20°C/6 month, -80°C for long storage

**Formulation** Liquid in PBS

## Recommended Dilution Ratios

## Basic Information

**Source** E.coli

**Purification** E.coli

**Purity** SDS-PAGE >90%

## Immunogen Information

**Sequence** Amino acid: 509-735, with his-MBP tag.

## Target Information

**Gene name** STAT1

**Protein Name**

STAT1 protein

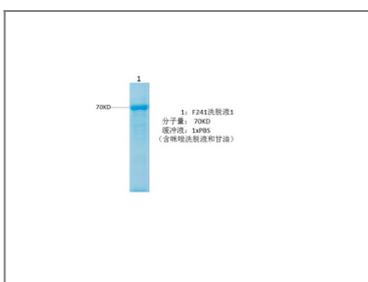
Organism	Gene ID	UniProt ID
Human	<a href="#">6772;</a>	<a href="#">P42224;</a>
Mouse		<a href="#">P42225;</a>

**Cellular Localization**

Cytoplasm . Nucleus . Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to IFN-gamma and signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4 (PubMed:15322115). Monomethylation at Lys-525 is required for phosphorylation at Tyr-701 and translocation into the nucleus (PubMed:28753426). Translocates into the nucleus in response to interferon-beta stimulation (PubMed:26479788). .

**Function**

response to reactive oxygen species, response to molecule of bacterial origin, circulatory system process,transcription, transcription, DNA-dependent, regulation of transcription, DNA-dependent, transcription from RNA polymerase II promoter, protein amino acid phosphorylation, phosphorus metabolic process, phosphate metabolic process, apoptosis, induction of apoptosis, activation of caspase activity, response to oxidative stress, cell surface receptor linked signal transduction, intracellular signaling cascade, protein kinase cascade, I-kappaB kinase/NF-kappaB cascade, JAK-STAT cascade, tyrosine phosphorylation of STAT protein, response to nutrient, blood circulation,cell death, positive regulation of cell proliferation, response to mechanical stimulus, response to virus, response to bacterium, response to abiotic stimulus, response to endogenous stimulus, response to hormone stimulus, response to extracellular stimulus, response to organic substance, response to inorganic substance, regulation of cell death,positive regulation of cell death, positive regulation of peptidase activity, programmed cell death, induction of programmed cell death, response to organic cyclic substance, death, phosphorylation, peptidyl-tyrosine phosphorylation, peptidyl-tyrosine modification, cytokine-mediated signaling pathway, lipopolysaccharide-mediated signaling pathway, response to nutrient levels, response to lipopolysaccharide, RNA biosynthetic process, response to insulin stimulus, cellular response to insulin stimulus, cellular response to hormone stimulus, response to cytokine stimulus, regulation of cell proliferation, response to drug, response to hydrogen peroxide, regulation of apoptosis,positive regulation of apoptosis, regulation of programmed cell death, positive regulation of programmed cell death,positive regulation of catalytic activity, positive regulation of caspase activity, regulation of caspase activity, response to exogenous dsRNA, response to dsRNA, response to peptide hormone stimulus, positive regulation of molecular function, regulation of transcription, regulation of smooth muscle cell proliferation, positive regulation of smooth muscle cell proliferation, regulation of RNA metabolic process, regulation of hydrolase activity, positive regulation of hydrolase activity, response to cAMP, regulation of peptidase activity, regulation of endopeptidase activity,

**Validation Data**

## | Contact information

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**STAT1 protein**

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