

## Phospho STAT3 (Tyr705) (1E9) Mouse mAb

CatalogNo: YP1883

### Key Features

#### Host Species

- Mouse

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, IHC, IF, ELISA

#### MW

- 79,86kD (Observed)

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 500-2000**

**IHC 1:50-300**

**IF 1:50-200**

**ELISA 1:5000-20000**

### Basic Information

**Clonality** Monoclonal

**Clone Number** 1000000000

### Immunogen Information

**Immunogen** Synthetic Peptide of Phospho-Stat3 (Y705) at AA range of 640-720

**Specificity** Phospho-Stat3 (Y705) protein detects endogenous levels of STAT3

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## | Target Information

**Gene name** STAT3 APRF

**Protein Name** Signal transducer and activator of transcription 3

Organism	Gene ID	UniProt ID
Human	<a href="#">6774</a> ;	<a href="#">P40763</a> ;
Mouse	<a href="#">20848</a> ;	<a href="#">P42227</a> ;
Rat	<a href="#">25125</a> ;	<a href="#">P52631</a> ;

**Cellular Localization**

Cytoplasm . Nucleus . Shuttles between the nucleus and the cytoplasm. Translocated into the nucleus upon tyrosine phosphorylation and dimerization , in response to signaling by activated FGFR1 , FGFR2 , FGFR3 or FGFR4. Constitutive nuclear presence is independent of tyrosine phosphorylation. Predominantly present in the cytoplasm without stimuli. Upon leukemia inhibitory factor (LIF) stimulation , accumulates in the nucleus. The complex composed of BART and ARL2 plays an important role in the nuclear translocation and retention of STAT3. Identified in a complex with LYN and PAG1.

**Tissue specificity** Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Expressed in naive CD4 (+) T cells as well as T-helper Th17 , Th1 and Th2 cells (PubMed:31899195) .

**Function**

Disease:Defects in STAT3 are the cause of hyperimmunoglobulin E recurrent infection syndrome autosomal dominant (AD-HIES) [MIM:147060]; also known as hyper-IgE syndrome or Job syndrome. AD-HIES is a rare disorder of immunity and connective tissue characterized by immunodeficiency , chronic eczema , recurrent Staphylococcal infections , increased serum IgE , eosinophilia , distinctive coarse facial appearance , abnormal dentition , hyperextensibility of the joints , and bone fractures. ,Function:Transcription factor that binds to the interleukin-6 (IL-6) -responsive elements identified in the promoters of various acute-phase protein genes. Activated by IL31 through IL31RA. ,miscellaneous:Involved in the gp130-mediated signaling pathway. ,online information:STAT3 entry ,online information:STAT3 mutation db ,PTM:Tyrosine phosphorylated in response to IL-6 , IL-11 , CNTF , LIF , CSF-1 , EGF , PDGF , IFN-alpha and OSM. Phosphorylated on serine upon DNA damage , probably by ATM or ATR. Serine phosphorylation is important for the formation of stable DNA-binding STAT3 homodimers and maximal transcriptional activity. ,similarity:Belongs to the transcription factor STAT family. ,similarity:Contains 1 SH2 domain. ,subcellular location:Shuttles between the nucleus and the cytoplasm. Constitutive nuclear presence is independent of tyrosine phosphorylation. ,subunit:Forms a homodimer or a heterodimer with a related family member (at least STAT1) . Interacts with NCOA1 , PELP1 , SOCS7 and STATIP1. Interacts with HCV core protein. Interacts with IL23R in presence of IL23. Interacts with IL31RA. Interacts with SIPAR. Interacts (via SH2 domain) with NLK (By similarity) . Interacts with KPNA4 and KPNA5; KPNA4 may be the primary mediator of nuclear import (By similarity) . Interacts with TMF1. ,tissue specificity:Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. ,

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## | Validation Data

## | Contact information

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Telephone: 400-8787-807(China)  
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Please scan the QR code to access additional product information:  
**Phospho STAT3 (Tyr705) (1E9) Mouse mAb**

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