

## STAT3 (Acetyl Lys87) Rabbit pAb

CatalogNo: YK0070 Orthogonal Validated 

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA, IHC

#### MW

- 85kD (Observed)

#### Isotype

- IgG

### 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 1:500-2000

IHC 1:50-300

ELISA 1:2000-20000

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized acetyl-peptide derived from human Stat3 around the acetylation site of K87.

**Specificity** Acetyl-Stat3 (K87) Polyclonal Antibody detects endogenous levels of Stat3 around the acetylation site of K87 protein. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites): RlkQF

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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.

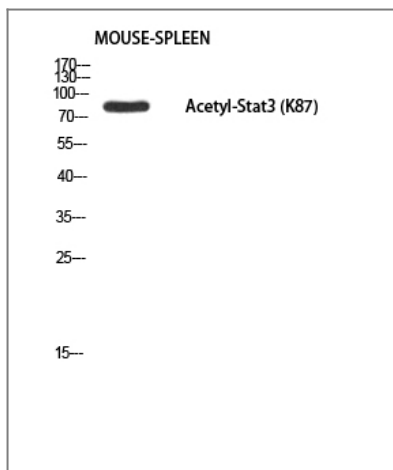
**Tissue specificity** Heart , brain , placenta , lung , liver , skeletal muscle , kidney and pancreas. Expressed in naive CD4 (+) T cells as well as T-helper Th17 , Th1 and Th2 cells (PubMed:31899195) .

**Function**

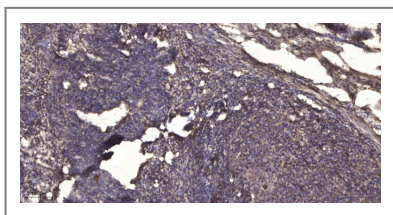
Disease:Defects in STAT3 are the cause of hyperimmunoglobulin E recurrent infection syndrome autosomal dominant (AD-HIES) [MIM:147060]; also known as hyper-IgE syndrome or Job syndrome. AD-HIES is a rare disorder of immunity and connective tissue characterized by immunodeficiency , chronic eczema , recurrent 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



Western blot analysis of MOUSE-SPLEEN using Acetyl-Stat3 (K87) antibody. Antibody was diluted at 1:500. Secondary antibody (catalog#:RS0002) was diluted at 1:20000



Immunohistochemical analysis of paraffin-embedded human cervical carcinoma. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH 9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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