

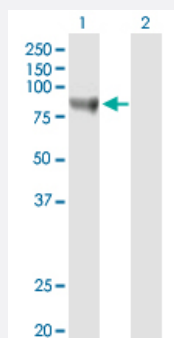
MaxPab®

# STAT3 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00006774-B01P

Size 50 ug

## Applications



### Western Blot (Transfected lysate)

Western Blot analysis of STAT3 expression in transfected 293T cell line ([H00006774-T01](#)) by STAT3 MaxPab polyclonal antibody.

Lane 1: STAT3 transfected lysate (88.10 KDa).

Lane 2: Non-transfected lysate.

## Specification

### Product Description

Mouse polyclonal antibody raised against a full-length human STAT3 protein.

### Immunogen

STAT3 (AAH14482.1, 1 a.a. ~ 770 a.a) full-length human protein.

### Sequence

MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEI  
DQQYSRFLQESNVLYQHNLRRKQFLQSRYLEKPMIARIVARCLWEESRLLQTAATAAQQGGQA  
NHPTAAVVTEKQQMLEQHLQDVVRKRVQDLEQKMKVVENLQDDDFDNFKTLKSQGDMQDLNGN  
NQSIVTRQKMQQLEQMLTALDQMRRSIVSELAGLLSAMEYVQKTLTDEELADWKRRQQIACIGGP  
PNICLDRLLENWITSLAESQLQTRQQIKLEELQKQVSYKGDPIVQHRPMLEERVELFRNLMKSAFV  
VERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILG  
TNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDAVLTEELHLITFETEVYHQGLKIDL  
ETHSLPVVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPIGTWDQVAEVLWSWQFSSTTKRG  
LSIEQLTTLAEKLLGPGVNYSGCQITWAKFCKENMAGKGFVFWWLDNIIDLVKYILALWNEGYIM  
GFIKERERAILSTKPPGTFLRRFSESSKEGGVFTFTWVEKDISGKTQIQSVPEPYTKQQLNMSFAEII  
MGYKIMDATNILVSPLVLYPDIPKEEAFGKYCRPESQEHPADPGSAAPYLKTKFICVPTTCSNTI  
DLPMSPRTLDSLMLQFGNNGEGAEPSSAGGQFESLTFDMELTSECATSPM

### Host

Mouse

### Reactivity

Human

|                               |                                                                          |
|-------------------------------|--------------------------------------------------------------------------|
| Interspecies Antigen Sequence | Mouse (99); Rat (99)                                                     |
| Quality Control Testing       | Antibody reactive against mammalian transfected lysate.                  |
| Storage Buffer                | In 1x PBS, pH 7.4                                                        |
| Storage Instruction           | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

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[Protocol Download](#)

## Gene Info — STAT3

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">6774</a>                                                             |
| GeneBank Accession# | <a href="#">NM_139276</a>                                                        |
| Protein Accession#  | <a href="#">AAH14482.1</a>                                                       |
| Gene Name           | STAT3                                                                            |
| Gene Alias          | APRF, FLJ20882, HIES, MGC16063                                                   |
| Gene Description    | signal transducer and activator of transcription 3 (acute-phase response factor) |
| Omim ID             | <a href="#">102582</a>                                                           |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                        |

**Gene Summary**

The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated through phosphorylation in response to various cytokines and growth factors including IFNs, EGF, IL5, IL6, HGF, LIF and BMP2. This protein mediates the expression of a variety of genes in response to cell stimuli, and thus plays a key role in many cellular processes such as cell growth and apoptosis. The small GTPase Rac1 has been shown to bind and regulate the activity of this protein. PIAS3 protein is a specific inhibitor of this protein. Three alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq]

**Other Designations**

DNA-binding protein APRF|acute-phase response factor|signal transducer and activator of transcription 3

## Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Chemokine signaling pathway](#)
- [Jak-STAT signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

## Disease

- [Abortion](#)
- [Asthma](#)
- [Autoimmune Diseases](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bronchiolitis](#)
- [Carcinoma](#)
- [Cardiovascular Diseases](#)

- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Depressive Disorder](#)
- [Dermatitis](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [DNA Damage](#)
- [Eczema](#)
- [Edema](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Genomic Instability](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hepatitis C](#)
- [Infant](#)
- [Inflammation](#)
- [Inflammatory Bowel Diseases](#)
- [Insulin Resistance](#)
- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)

- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Sclerosis](#)
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- [Obesity](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Rectal Fistula](#)
- [Respiratory Syncytial Virus Infections](#)
- [Spondylitis](#)
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