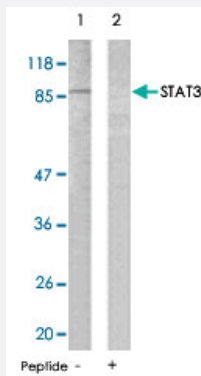


# STAT3 polyclonal antibody

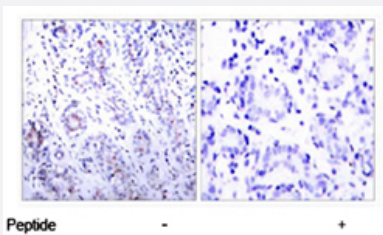
Catalog # PAB26633      Size 100 ug

## Applications



### Western Blot (Cell lysate)

Western blot analysis of extracts from HeLa cells using STAT3 polyclonal antibody (Cat # PAB26633).



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT3 polyclonal antibody (Cat # PAB26633).

## Specification

|                            |                                                                                |
|----------------------------|--------------------------------------------------------------------------------|
| <b>Product Description</b> | Rabbit polyclonal antibody raised against synthetic peptide of STAT3.          |
| <b>Immunogen</b>           | A synthetic peptide corresponding to residues surrounding S727 of human STAT3. |
| <b>Sequence</b>            | P-M-Sp-P-R                                                                     |
| <b>Host</b>                | Rabbit                                                                         |
| <b>Reactivity</b>          | Human, Mouse, Rat                                                              |
| <b>Form</b>                | Liquid                                                                         |

|                            |                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purification</b>        | Affinity chromatography                                                                                                                |
| <b>Concentration</b>       | 1 mg/mL                                                                                                                                |
| <b>Recommend Usage</b>     | Western Blot (1:500-1:1000)<br>Immunohistochemistry (1:50-1:100)<br>The optimal working dilution should be determined by the end user. |
| <b>Storage Buffer</b>      | In PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150 mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)                        |
| <b>Storage Instruction</b> | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                     |
| <b>Note</b>                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                 |

## Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from HeLa cells using STAT3 polyclonal antibody (Cat # PAB26633).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT3 polyclonal antibody (Cat # PAB26633).

## Gene Info — STAT3

|                           |                                                                                  |
|---------------------------|----------------------------------------------------------------------------------|
| <b>Entrez GeneID</b>      | <a href="#">6774</a>                                                             |
| <b>Protein Accession#</b> | <a href="#">P40763</a>                                                           |
| <b>Gene Name</b>          | STAT3                                                                            |
| <b>Gene Alias</b>         | APRF, FLJ20882, HIES, MGC16063                                                   |
| <b>Gene Description</b>   | signal transducer and activator of transcription 3 (acute-phase response factor) |
| <b>Omim ID</b>            | <a href="#">102582</a>                                                           |
| <b>Gene Ontology</b>      | <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](#)
- [Neoplasm Metastasis](#)
- [Obesity](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Rectal Fistula](#)
- [Respiratory Syncytial Virus Infections](#)
- [Spondylitis](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)