

STAT3 polyclonal antibody

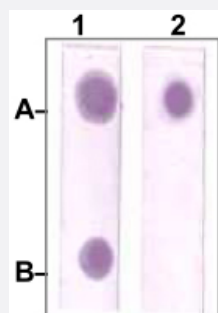
Catalog # PAB12784 Size 100 ug

Applications



Western Blot (Cell lysate)

The whole cell lysate derived from A-431 was immunoblotted by STAT3 polyclonal antibody (Cat # PAB12784) at 1 : 500.



Dot Blot (Peptide)

Dot Blot : 1 ug peptide was blot onto NC membrane.

A : STAT3 (pS727) (Phosphospecific)

B : STAT3 (Paired S727) (Nonphosphospecific)

were blotted at a 1 : 2000 dilution by :

1 : STAT3 polyclonal antibody (Cat # PAB12784),

2 : Phospho-STAT3 S727 polyclonal antibody (Cat # PAB12753).

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of STAT3.
Immunogen	A synthetic peptide corresponding to residues surrounding S727 (PMSPR) of human, mouse, rat, bovine, chicken and dog STAT3.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody recognizes STAT3 without a phosphorylated sites of Ser 727.
Form	Liquid

Quality Control Testing

Antibody Reactive Against Synthetic Peptide.

Recommend Usage

Western Blot (0.1-1 ug/mL)
ELISA (0.01-0.1 ug/mL)
Immunoprecipitation (2-5 ug/mL)
Immunohistochemistry (1:50)
The optimal working dilution should be determined by the end user.

Storage Buffer

In TBS, pH 7.2 (BSA, 10% Proclin300)

Storage Instruction

Store at 4°C. For long term storage store at -20°C or lower.
Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

The whole cell lysate derived from A-431 was immunoblotted by STAT3 polyclonal antibody (Cat # PAB12784) at 1 : 500.

- Immunohistochemistry

- Immunoprecipitation

- Enzyme-linked Immunoabsorbent Assay

- Dot Blot (Peptide)

Dot Blot : 1 ug peptide was blot onto NC membrane.

A : STAT3 (pS727) (Phosphospecific)

B : STAT3 (Paired S727) (Nonphosphospecific)

were blotted at a 1 : 2000 dilution by :

1 : STAT3 polyclonal antibody (Cat # PAB12784),

2 : Phospho-STAT3 S727 polyclonal antibody (Cat # PAB12753).

Gene Info — STAT3

Entrez GeneID[6774](#)**Gene Name**

STAT3

Gene Alias

APRF, FLJ20882, HIES, MGC16063

Gene Description

signal transducer and activator of transcription 3 (acute-phase response factor)

Omim ID[102582](#)

Gene Ontology

[Hyperlink](#)

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

Gene Info — Stat3

Entrez GeneID

[20848](#)

Gene Name

Stat3

Gene Alias

1110034C02Rik, AW109958, Aprf

Gene Description

signal transducer and activator of transcription 3

Gene Ontology

[Hyperlink](#)

Other Designations

OTTMUSP00000002052|OTTMUSP00000002053|acute phase response factor

Gene Info — Stat3

Entrez GeneID

[25125](#)

Gene Name

Stat3

Gene Alias

MGC93551

Gene Description

signal transducer and activator of transcription 3

Gene Ontology

[Hyperlink](#)

Other Designations

-

Gene Info — STAT3

Entrez GeneID	420027
Gene Name	STAT3
Gene Alias	-
Gene Description	signal transducer and activator of transcription 3 (acute-phase response factor)
Gene Ontology	Hyperlink
Other Designations	signal transducer and activator of transcription 3

Gene Info — STAT3

Entrez GeneID	490967
Gene Name	STAT3
Gene Alias	-
Gene Description	signal transducer and activator of transcription 3 (acute-phase response factor)
Gene Ontology	Hyperlink
Other Designations	-

Gene Info — STAT3

Entrez GeneID	508541
Gene Name	STAT3
Gene Alias	MGC128731
Gene Description	signal transducer and activator of transcription 3 (acute-phase response factor)
Gene Ontology	Hyperlink
Other Designations	-

Publication Reference

- [A new expression cloning strategy for isolation of substrate-specific kinases by using phosphorylation site-specific antibody.](#)

Matsuo R, Ochiai W, Nakashima K, Taga T.

Journal of Immunology 2001 Jan; 247(1-2):141.

Application: WB-Ce, WB-Tr, Bacteria, Monkey, BAFh130, COS-7 cells

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](#)