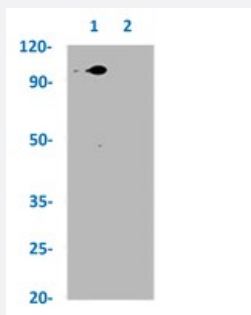


RecomAb™

STAT3 (phospho S727) recombinant monoclonal antibody, clone 2A9

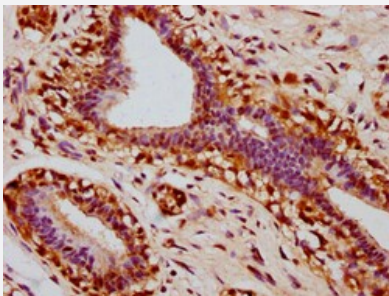
Catalog # RAB04251 Size 100 uL

Applications



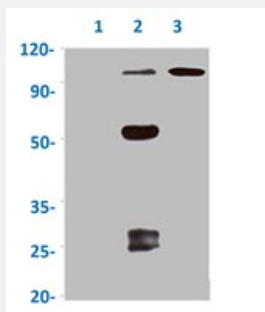
Western Blot

Western blot analysis of Lane 1: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and Lane 2: A549 whole cell lysate (not treated) with STAT3 (phospho S727) recombinant monoclonal antibody, clone 2A9 (Cat # RAB04251).



Immunohistochemistry

Immunohistochemical staining of human breast cancer with STAT3 (phospho S727) recombinant monoclonal antibody, clone 2A9 (Cat # RAB04251) (diluted at 1:100).



Immunoprecipitation

Immunoprecipitation analysis of 293 cell lysate with STAT3 (phospho S727) recombinant monoclonal antibody, clone 2A9 (Cat # RAB04251). Lane 1: rabbit control IgG, Lane 2: RAB04251 precipitates and Lane 3 : Input (293 whole cell lysates).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human STAT3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surrounding S727 of human STAT3.
Theoretical MW (kDa)	Calculated MW: 98 kD
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:200-1:1000) Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western blot analysis of Lane 1: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and Lane 2: A549 whole cell lysate (not treated) with STAT3 (phospho S727) recombinant monoclonal antibody, clone 2A9 (Cat # RAB04251).

- Immunohistochemistry

Immunohistochemical staining of human breast cancer with STAT3 (phospho S727) recombinant monoclonal antibody, clone 2A9 (Cat # RAB04251) (diluted at 1:100).

- Immunoprecipitation

Immunoprecipitation analysis of 293 cell lysate with STAT3 (phospho S727) recombinant monoclonal antibody, clone 2A9 (Cat # RAB04251).

Lane 1: rabbit control IgG, Lane 2: RAB04251 precipitates and Lane 3 : Input (293 whole cell lysates).

- Enzyme-linked Immunoabsorbent Assay

Gene Info — STAT3

Entrez GeneID [6774](#)

Protein Accession# [P40763](#)

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

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](#)
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- [Lung Neoplasms](#)
- [Lymphoma](#)
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- [Respiratory Syncytial Virus Infections](#)
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- [Tooth Abnormalities](#)