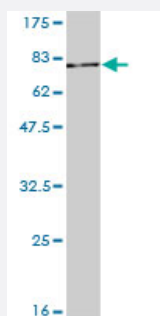


STAT3 monoclonal antibody (M01), clone 1D11-2A11

Catalog # H00006774-M01

Size 100 ug

Applications



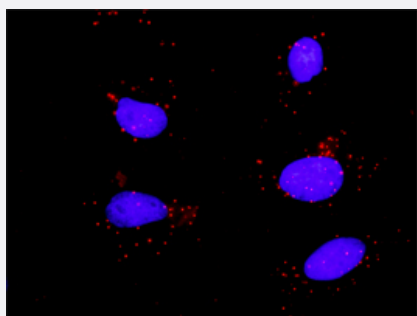
Western Blot (Cell lysate)

STAT3 monoclonal antibody (M01), clone 1D11-2A11. Western Blot analysis of STAT3 expression in K-562 (Cat # L009V1).



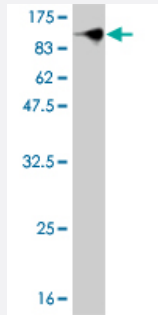
Western Blot (Cell lysate)

STAT3 monoclonal antibody (M01), clone 1D11-2A11 Western Blot analysis of STAT3 expression in HeLa (Cat # L013V1).



In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between STAT1 and STAT3. HeLa cells were stained with anti-STAT1 rabbit purified polyclonal 1:1200 and anti-STAT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (110.11 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant STAT3.
Immunogen	STAT3 (AAH00627, 1 a.a. ~ 769 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAQWNQLQQLDTRYLEQLHQLYSDSFPMELRQFLAPWIESQDWAYAASKESHATLVFHNLLGEI DQQYSRFLQESNVLYQHNLRRKQFLQSRYLEKPMIARVARCLWEESRLLQTAATAAQGGQA NHPTAAVVTEKQQMLEQHLQDVRKRVQDLEQKMKVVENLQDDDFDFNYKTLKSQGDMQDLNGN NQSVTRQKMQQLEQMLTALDQMRRSIVSELAGLLSAMEYVQKTLTDEELADWKRRQQIACIGGP PNICLDRLLENWITSLAESQLQTRQQIKKLEELQQKVSYKGDPIVQHRPMLLEERVELFRNLMKSAFV VERQPCMPMHPDRPLVIKTGVQFTTKVRLLVKFPELNYQLKIKVCIDKDSGDVAALRGSRKFNILG TNTKVMNMEESNNGSLSAEFKHLTLREQRCGNGGRANCDASLVTEELHLITFETEVYHQGLKIDL ETHSLPVVISNICQMPNAWASILWYNMLTNNPKNVNFFTKPPIGTWDQVAEVLVSWQFSSTTKRG LSIEQLTTAEKLLGPGVNYSGCQITWAKFCKENMAGKGFSFWWLDNIIDLVKKYILALWNEGYIM GFISKERERAILSTKPPGTFLLRFSESSKEGGVTFTWVEKDISGKTQIQSVPEYTKQQLNNMSFAEII MGYKIMDATNILVSPLVLYPDIPKEEAFGKYCRPESQEHPADPGAAPYLKTKFICVTPTTCSNTID LPMSPTLDSLMQFGNNGEGAEPSAGGQFESLTFDMELTSECATSPM
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (99); Rat (99)
Isotype	IgG2b Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (110.11 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Cell lysate)

STAT3 monoclonal antibody (M01), clone 1D11-2A11. Western Blot analysis of STAT3 expression in K-562 (Cat # L009V1).

[Protocol Download](#)

- Western Blot (Cell lysate)

STAT3 monoclonal antibody (M01), clone 1D11-2A11 Western Blot analysis of STAT3 expression in HeLa (Cat # L013V1).

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between STAT1 and STAT3. HeLa cells were stained with anti-STAT1 rabbit purified polyclonal 1:1200 and anti-STAT3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

Gene Info — STAT3

Entrez GeneID [6774](#)

GeneBank Accession# [BC000627](#)

Protein Accession# [AAH00627](#)

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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- [Kidney Neoplasms](#)
- [Leukemia](#)
- [Liver Neoplasms](#)

- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
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- [Ovarian Neoplasms](#)
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- [Tobacco Use Disorder](#)
- [Tooth Abnormalities](#)