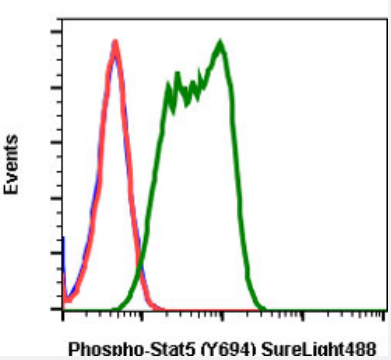
STAT5 (phospho Y694) monoclonal antibody, clone G11 (SureLight 488)

Catalog # MAB19147 Size 100 Reactions

Applications



Flow Cytometry

Flow cytometric analysis of NIH3T3 cells with STAT5 (phospho Y694) monoclonal antibody, clone G11 (SureLight 488) (Cat # MAB19147). Unstained and treated with imatinib as negative control (blue) or stained and treated with imatinib (red) or treated with pervanadate (green).

Specification

Product Description	Rabbit monoclonal antibody raised against synthetic phosphopeptide of human STAT5.
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Y694 of human STAT5.
Host	Rabbit
Reactivity	Human, Mouse
Form	Liquid
Conjugation	SureLight 488
Purification	Protein A/G purification
Isotype	IgG1, kappa
Recommend Usage	Flow Cytometry (5 uL/10^6 cells) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (0.2% BSA, 0.09% sodium azide).

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Storage Instruction	Store at 4°C.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Flow Cytometry

Flow cytometric analysis of NIH3T3 cells with STAT5 (phospho Y694) monoclonal antibody, clone G11 (SureLight 488) (Cat # MAB19147). Unstained and treated with imatinib as negative control (blue) or stained and treated with imatinib (red) or treated with pervanadate (green).

Gene Info — STAT5A

Entrez GeneID	6776
Gene Name	STAT5A
Gene Alias	MGF, STAT5
Gene Description	signal transducer and activator of transcription 5A
Omim ID	601511
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the STAT family of transcription factors. In resp onse to cytokines and growth factors, STAT family members are phosphorylated by the receptor a ssociated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated by, and mediates the responses of m any cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growt h hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 ge ne fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesi s. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), wh ich suggests the antiapoptotic function of this gene in cells. [provided by RefSeq
Other Designations	-

Gene Info — STAT5B

Entrez GeneID	6777
Gene Name	STAT5B

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Gene Alias	STAT5
Gene Description	signal transducer and activator of transcription 5B
Omim ID	245590 604260
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the STAT family of transcription factors. 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 mediates the signal transduction triggered by various cell ligands, such as IL2, IL4, CSF1, and different growth hormones. It has been shown to be involved in diverse biological processes, such as TCR signaling, apoptosis, adult mammary gland development, and sexual dimorphism of liver gene expression. This gene was found to fuse to retinoic acid receptor-alpha (RARA) gene in a small subset of acute promyelocytic leukemias (APLL). The dysregulation of the signaling pathways mediated by this protein may be the cause of the APLL. [provided by RefSeq
Other Designations	transcription factor STAT5B

Pathway

- Acute myeloid leukemia
- Acute myeloid leukemia
- Chemokine signaling pathway
- Chronic myeloid leukemia
- Chronic myeloid leukemia
- ErbB signaling pathway
- ErbB signaling pathway
- Jak-STAT signaling pathway
- Jak-STAT signaling pathway
- Pathways in cancer
- Pathways in cancer

Disease

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- Asthma
- Birth Weight
- Birth Weight
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms
- Bronchiolitis
- Carcinoma
- Cardiovascular Diseases
- Cleft Lip
- Cleft Palate
- Diabetes Mellitus
- Disease Progression
- Edema
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Glioblastoma
- Glioblastoma
- Glioma
- Glioma
- Hepatitis C
- Infant
- Leukemia
- Leukemia
- Liver Neoplasms

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- Lupus Erythematosus
- Meningeal Neoplasms
- Meningeal Neoplasms
- Meningioma
- Meningioma
- Respiratory Syncytial Virus Infections
- Tooth Abnormalities
- Viremia

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