

STAT5B Antibody (monoclonal) (M03)**Mouse monoclonal antibody raised against a partial recombinant STAT5B.****Catalog # AT4066a****Specification**

STAT5B Antibody (monoclonal) (M03) - Product Information

| | |
|-------------------|---------------------------|
| Application | WB, IHC, IF, E |
| Primary Accession | P51692 |
| Other Accession | NM_012448 |
| Reactivity | Human |
| Host | mouse |
| Clonality | Monoclonal |
| Isotype | IgG1 Kappa |
| Calculated MW | 89866 |

STAT5B Antibody (monoclonal) (M03) - Additional Information**Gene ID** 6777**Other Names**

Signal transducer and activator of transcription 5B, STAT5B

Target/Specificity

STAT5B (NP_036580, 678 a.a. ~ 787 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

IHC~~1:100~500

IF~~1:50~200

E~~N/A

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

STAT5B Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

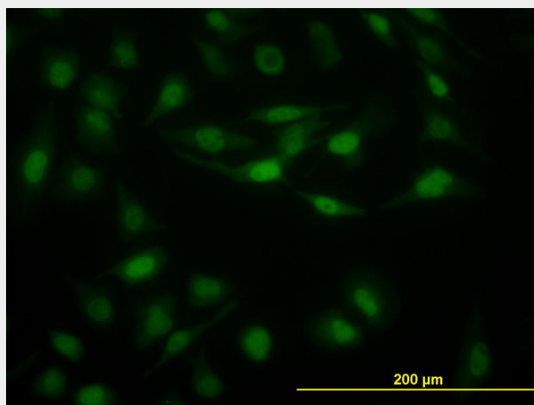
STAT5B Antibody (monoclonal) (M03) - Protocols

Provided below are standard protocols that you may find useful for product applications.

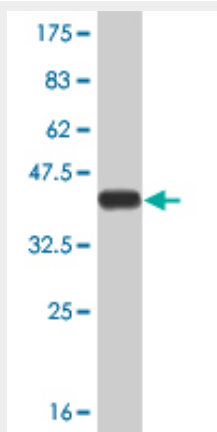
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

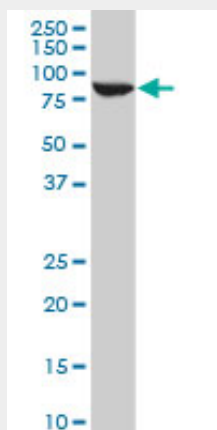
STAT5B Antibody (monoclonal) (M03) - Images



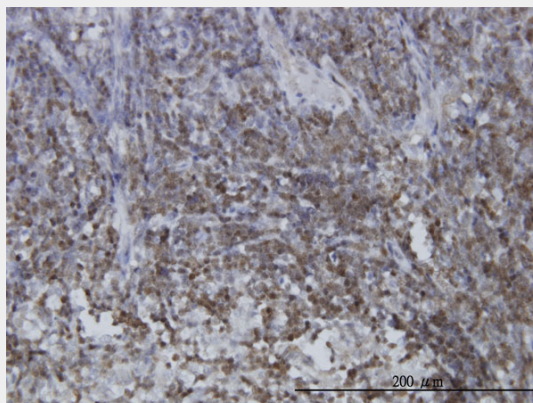
Immunofluorescence of monoclonal antibody to STAT5B on HeLa cell. [antibody concentration 10 ug/ml]



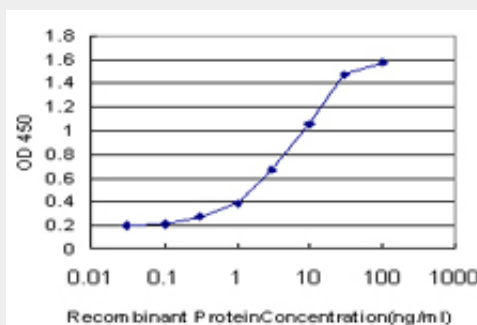
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .



STAT5B monoclonal antibody (M03), clone 2D1 Western Blot analysis of STAT5B expression in HeLa (Cat # AT4066a)



Immunoperoxidase of monoclonal antibody to STAT5B on formalin-fixed paraffin-embedded human lymph node. [antibody concentration 1.5 ug/ml]



Detection limit for recombinant GST tagged STAT5B is approximately 0.3ng/ml as a capture antibody.

STAT5B Antibody (monoclonal) (M03) - Background

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.

STAT5B Antibody (monoclonal) (M03) - References

Variation at the NFATC2 Locus Increases the Risk of Thiazolidinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. JAK2V617F/STAT5 signaling pathway promotes cell proliferation through activation of Pituitary Tumor Transforming Gene 1 expression. Shen XL, et al. Biochem Biophys Res Commun, 2010 Aug 6. PMID 20621061. Polymorphisms in innate immunity genes and risk of childhood leukemia. Han S, et al. Hum Immunol, 2010 Jul. PMID 20438785. Deregulation of STAT-5 isoforms in the development of HPV-mediated cervical carcinogenesis. Sobti RC, et al. J Recept Signal Transduct Res, 2010 Jun. PMID 20415542. Risk of meningioma and common variation in genes related to innate immunity. Rajaraman P, et al. Cancer

Epidemiol Biomarkers Prev, 2010 May. PMID 20406964.