

**STAT6 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant STAT6.****Catalog # AT4067a****Specification**

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**STAT6 Antibody (monoclonal) (M01) - Product Information**

Application	IF, WB, IHC, E
Primary Accession	<a href="#">P42226</a>
Other Accession	<a href="#">BC004973</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	94135

**STAT6 Antibody (monoclonal) (M01) - Additional Information****Gene ID** 6778**Other Names**

Signal transducer and activator of transcription 6, IL-4 Stat, STAT6

**Target/Specificity**

STAT6 (NP\_003144, 694 a.a. ~ 801 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Dilution**

WB~~1:500~1000

**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**

STAT6 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

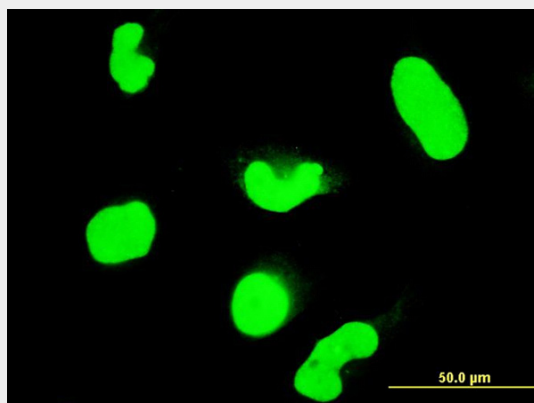
**STAT6 Antibody (monoclonal) (M01) - Protocols**

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

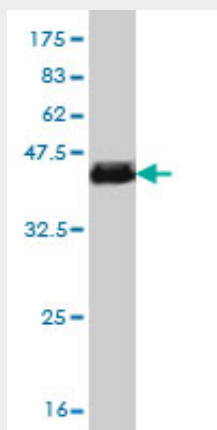
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

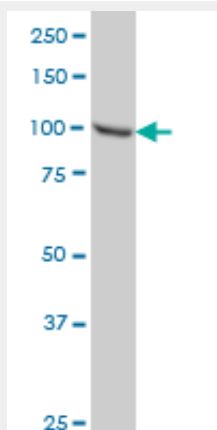
### STAT6 Antibody (monoclonal) (M01) - Images



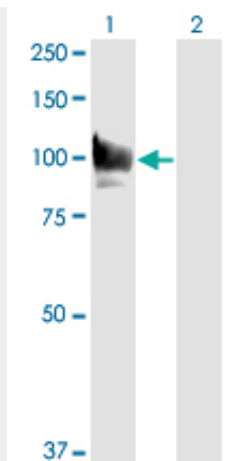
Immunofluorescence of monoclonal antibody to STAT6 on HeLa cell. [antibody concentration 10 ug/ml]



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.51 KDa) .



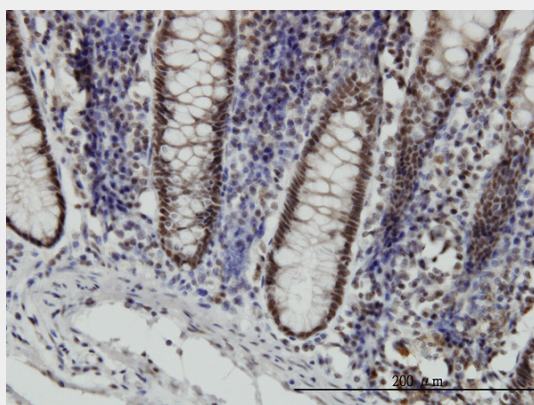
STAT6 monoclonal antibody (M01), clone 6C10 Western Blot analysis of STAT6 expression in HeLa (Cat # AT4067a)



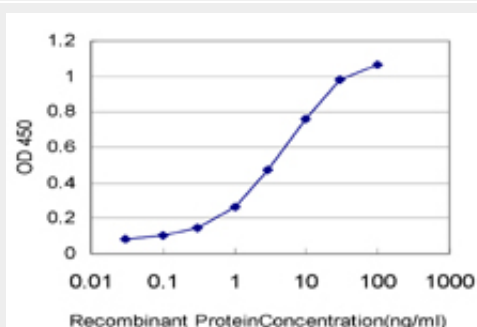
Western Blot analysis of STAT6 expression in transfected 293T cell line by STAT6 monoclonal antibody (M01), clone 6C10.

Lane 1: STAT6 transfected lysate(94.1 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to STAT6 on formalin-fixed paraffin-embedded human colon. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged STAT6 is approximately 0.1ng/ml as a capture antibody.

### STAT6 Antibody (monoclonal) (M01) - 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 plays a central role in exerting IL4

mediated biological responses. It is found to induce the expression of BCL2L1/BCL-X(L), which is responsible for the anti-apoptotic activity of IL4. Knockout studies in mice suggested the roles of this gene in differentiation of T helper 2 (Th2) cells, expression of cell surface markers, and class switch of immunoglobulins. Alternative splicing results in multiple transcript variants.

#### **STAT6 Antibody (monoclonal) (M01) - 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. Genome-wide profiling of interleukin-4 and STAT6 transcription factor regulation of human Th2 cell programming. Elo LL, et al. Immunity, 2010 Jun 25. PMID 20620947. Discrete roles of STAT4 and STAT6 transcription factors in tuning epigenetic modifications and transcription during T helper cell differentiation. Wei L, et al. Immunity, 2010 Jun 25. PMID 20620946. Interleukin 4 and STAT6 gene polymorphisms are associated with systemic lupus erythematosus in Chinese patients. Yu HH, et al. Lupus, 2010 Sep. PMID 20530519. Interleukin-9 polymorphism in infants with respiratory syncytial virus infection: an opposite effect in boys and girls. Schuurhof A, et al. Pediatr Pulmonol, 2010 Jun. PMID 20503287.