

### STAT4 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant STAT4. Catalog # AT4063a

### **Specification**

### STAT4 Antibody (monoclonal) (M01) - Product Information

WB, IHC, IF, IP, E Application **Primary Accession** 014765 Other Accession BC031212 Reactivity Human Host mouse Clonality **Monoclonal** Isotype IgG1 Kappa Calculated MW 85941

### STAT4 Antibody (monoclonal) (M01) - Additional Information

#### **Gene ID 6775**

#### **Other Names**

Signal transducer and activator of transcription 4, STAT4

# **Target/Specificity**

STAT4 (AAH31212, 1 a.a.  $\sim$  748 a.a) full-length 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 IP~~N/A 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**

STAT4 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

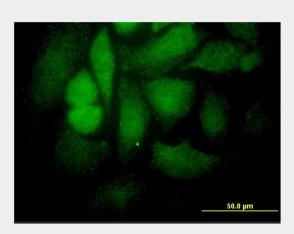
### STAT4 Antibody (monoclonal) (M01) - Protocols

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

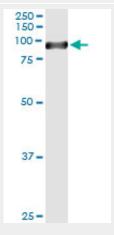


- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

# STAT4 Antibody (monoclonal) (M01) - Images

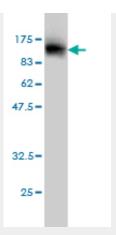


Immunofluorescence of monoclonal antibody to STAT4 on HeLa cell. [antibody concentration 10 ug/ml]

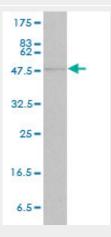


Immunoprecipitation of STAT4 transfected lysate using anti-STAT4 monoclonal antibody and Protein A Magnetic Bead (<u>U0007</u>), and immunoblotted with STAT4 MaxPab rabbit polyclonal antibody.

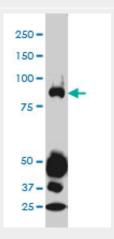




Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (108.02 KDa) .

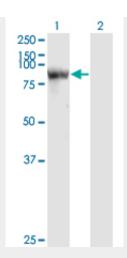


STAT4 monoclonal antibody (M01), clone 1C2-1C12. Western Blot analysis of STAT4 expression in human liver.



STAT4 monoclonal antibody (M01), clone 1C2-1C12 Western Blot analysis of STAT4 expression in A-549 ( (Cat # AT4063a )

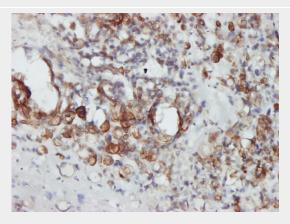




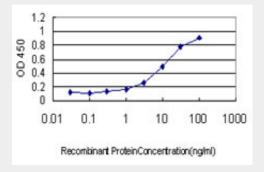
Western Blot analysis of STAT4 expression in transfected 293T cell line by STAT4 monoclonal antibody (M01), clone 1C2-1C12.

Lane 1: STAT4 transfected lysate(85.9 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to STAT4 on formalin-fixed paraffin-embedded human ovary, clear cell carcinoma tissue. [antibody concentration  $1 \sim 10$  ug/ml]



Detection limit for recombinant GST tagged STAT4 is approximately 0.3ng/ml as a capture antibody.

### STAT4 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 is essential for mediating responses





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to IL12 in lymphocytes, and regulating the differentiation of T helper cells.

## STAT4 Antibody (monoclonal) (M01) - References

STAT4 is a confirmed genetic risk factor for Sj?gren's syndrome and could be involved in type 1 interferon pathway signaling. Gestermann N, et al. Genes Immun, 2010 Jul. PMID 20535138.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. Investigation of potential non-HLA rheumatoid arthritis susceptibility loci in a European cohort increases the evidence for nine markers. Plant D, et al. Ann Rheum Dis, 2010 Aug. PMID 20498205. Genetic risk factors in lupus nephritis and IgA nephropathy--no support of an overlap. Vuong MT, et al. PLoS One, 2010 May 10. PMID 20479942. Evidence for STAT4 as a common autoimmune gene: rs7574865 is associated with colonic Crohn's disease and early disease onset. Glas J, et al. PLoS One, 2010 Apr 29. PMID 20454450.