

**Anti-STAT4 Rabbit Monoclonal Antibody**  
**Catalog # ABO13693****Specification**

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**Anti-STAT4 Rabbit Monoclonal Antibody - Product Information**

Application	WB, IHC, IF, ICC, IP, FC
Primary Accession	<a href="#">Q14765</a>
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

**Description**

Anti-STAT4 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human.

**Anti-STAT4 Rabbit Monoclonal Antibody - Additional Information**

**Gene ID** 6775

**Other Names**

Signal transducer and activator of transcription 4, STAT4

**Calculated MW**

85941 MW KDa

**Application Details**

WB 1:500-1:2000<br>IHC 1:50-1:200<br>ICC/IF 1:50-1:200<br>IP 1:20<br>FC 1:50

**Subcellular Localization**

Cytoplasm. Nucleus. Translocated into the nucleus in response to phosphorylation.

**Contents**

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

**Immunogen**

A synthesized peptide derived from human STAT4

**Purification**

Affinity-chromatography

**Storage**

**Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.**

**Anti-STAT4 Rabbit Monoclonal Antibody - Protein Information**

**Name** STAT4**Function**

Transcriptional regulator mainly expressed in hematopoietic cells that plays a critical role in cellular growth, differentiation and immune response (PubMed:<a href="http://www.uniprot.org/citations/10961885" target="\_blank">10961885</a>, PubMed:<a href="http://www.uniprot.org/citations/37256972" target="\_blank">37256972</a>, PubMed:<a href="http://www.uniprot.org/citations/8943379" target="\_blank">8943379</a>). Plays a key role in the differentiation of T-helper 1 cells and the production of interferon-gamma (PubMed:<a href="http://www.uniprot.org/citations/12213961" target="\_blank">12213961</a>, PubMed:<a href="http://www.uniprot.org/citations/35614130" target="\_blank">35614130</a>). Participates also in multiple neutrophil functions including chemotaxis and production of the neutrophil extracellular traps (By similarity). After IL12 binding to its receptor IL12RB2, STAT4 interacts with the intracellular domain of IL12RB2 and becomes tyrosine phosphorylated (PubMed:<a href="http://www.uniprot.org/citations/10415122" target="\_blank">10415122</a>, PubMed:<a href="http://www.uniprot.org/citations/7638186" target="\_blank">7638186</a>). Phosphorylated STAT4 then homodimerizes and migrates to the nucleus where it can recognize STAT target sequences present in IL12 responsive genes. Although IL12 appears to be the predominant activating signal, STAT4 can also be phosphorylated and activated in response to IFN-gamma stimulation via JAK1 and TYK2 and in response to different interleukins including IL23, IL2 and IL35 (PubMed:<a href="http://www.uniprot.org/citations/11114383" target="\_blank">11114383</a>, PubMed:<a href="http://www.uniprot.org/citations/34508746" target="\_blank">34508746</a>). Transcription activation of IFN-gamma gene is mediated by interaction with JUN that forms a complex that efficiently interacts with the AP-1-related sequence of the IFN-gamma promoter (By similarity). In response to IFN- alpha/beta signaling, acts as a transcriptional repressor and suppresses IL5 and IL13 mRNA expression during response to T-cell receptor (TCR) activation (PubMed:<a href="http://www.uniprot.org/citations/26990433" target="\_blank">26990433</a>).

**Cellular Location**

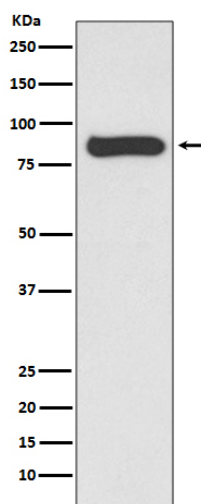
Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation.

**Anti-STAT4 Rabbit Monoclonal Antibody - 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](#)

**Anti-STAT4 Rabbit Monoclonal Antibody - Images**



Western blot analysis of STAT4 expression in Hela cell lysate.