

STAT4 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS12004**Specification**

STAT4 Antibody (N-Terminus) - Product Information

Application	IHC
Primary Accession	Q14765
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	86kDa KDa

STAT4 Antibody (N-Terminus) - Additional Information**Gene ID** 6775**Other Names**

Signal transducer and activator of transcription 4, STAT4

Target/Specificity

Recombinant (partial), N-terminal.

Reconstitution & Storage

+4°C or -20°C, Avoid repeated freezing and thawing.

Precautions

STAT4 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

STAT4 Antibody (N-Terminus) - 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: [10961885](http://www.uniprot.org/citations/10961885), PubMed: [37256972](http://www.uniprot.org/citations/37256972), PubMed: [8943379](http://www.uniprot.org/citations/8943379)). Plays a key role in the differentiation of T-helper 1 cells and the production of interferon-gamma (PubMed: [12213961](http://www.uniprot.org/citations/12213961), PubMed: [35614130](http://www.uniprot.org/citations/35614130)). 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: [10415122](http://www.uniprot.org/citations/10415122), PubMed: [7638186](http://www.uniprot.org/citations/7638186)). 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:11114383, PubMed:34508746). 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:26990433).

Cellular Location

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

Volume

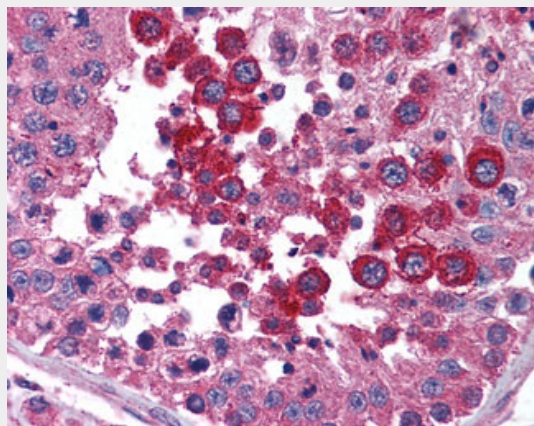
50 µl

STAT4 Antibody (N-Terminus) - 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](#)

STAT4 Antibody (N-Terminus) - Images



Anti-STAT4 antibody IHC of human testis.

STAT4 Antibody (N-Terminus) - Background

Carries out a dual function: signal transduction and activation of transcription. Involved in IL12 signaling.

STAT4 Antibody (N-Terminus) - References

Xu X.,et al.Submitted (AUG-1996) to the EMBL/GenBank/DDBJ databases.
Yao B.B.,et al.Arch. Biochem. Biophys. 368:147-155(1999).
Naeger L.K.,et al.J. Biol. Chem. 274:1875-1878(1999).
Kariuki S.N.,et al.J. Immunol. 182:34-38(2009).
Sjoebloom T.,et al.Science 314:268-274(2006).