

For Research Use Only

# STAT4 Polyclonal antibody

Catalog Number: 51070-2-AP **2 Publications**



## Basic Information

**Catalog Number:**

51070-2-AP

**Size:**

150ul , Concentration: 500 ug/ml by Nanodrop;

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

BC031212

**GeneID (NCBI):**

6775

**UNIPROT ID:**

Q14765

**Full Name:**

signal transducer and activator of transcription 4

**Calculated MW:**

748 aa, 86 kDa

**Observed MW:**

86 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:2000-1:16000

## Applications

**Tested Applications:**

WB, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Positive Controls:**

WB : A549 cells, HeLa cells, mouse testis tissue, rat testis tissue

## Background Information

The JAK/STAT pathway is an extensive signaling pathway downstream of cytokine receptors. STATs are cytosolic proteins with a common structure consisting of an N-terminal oligomerization domain, which favors formation of STAT dimers, followed by a DNA-binding domain and a C-terminal SRC homology-2 (SH2) domain, which is involved in association between STATs and receptors [PMID:22383755]. Signal Transducer and Activator of Transcription 4 (STAT4) is a transcription factor that is activated by IL-12 signaling and promotes Th1-cell differentiation and IFN- $\gamma$  production [PMID:21998209].

## Notable Publications

Author	Pubmed ID	Journal	Application
James P Hewitson	32321759	J Immunol	WB
Ke Xiang	38064840	Food Chem	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

**\*\*\* 20ul sizes contain 0.1% BSA**

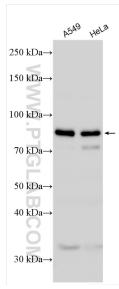
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 51070-2-AP (STAT4 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.