For Research Use Only

STAT4 Polyclonal antibody

Catalog Number: 51070-2-AP

2 Publications



Basic Information

Catalog Number: 51070-2-AP Size:

500 μg/ml 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- γ 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

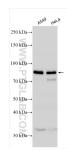
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

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

Aliquoting is unnecessary for -20°C storage

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.