



Rabbit anti STAT1 (pY701) Polyclonal Antibody

Alternative Name(s): signal transducer and activator of transcription 1, 91kDa

Order Information

- **Description:** STAT1 (pY701)
- **Catalogue:** 620-160
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Rabbit
- **Clone:** nan
- **Application:** IHC(P), WB
- **Reactivity:** Hu, Ms, Rt

ANTIGEN PREPARATION

A synthetic peptide surrounding to the epitope -TGYIK-- with phosphorylation sites at Tyr701 of STAT1 protein from human, mouse and rat origins.

BACKGROUND

STAT proteins (Signal transducer and activator of transcription) belong to a family of cytoplasmic transcription factors that can be phosphorylated by a ligand binding to its cell surface receptor. The phosphorylation of STAT1 at Tyr701 induces STAT1 dimerization, nuclear translocation and DNA binding. STAT 1 is activated by a number of different ligands, including IFN, EGF, PDGF and IL6. Tyrosine 701 phosphorylation impairment results in loss of STAT 1 functions.

PURIFICATION

The Rabbit IgG is purified by site-modified Epitope Affinity Purification.

FORMULATION

This affinity purified antibody is supplied in sterile Tris-buffered saline (pH7.2) containing antibody stabilizer

SPECIFICITY

This antibody recognizes STAT1 (pY701) with a phosphorylated sites of Tyr701. It does not cross-react with non-phosphospecific peptide.

STORAGE

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

APPLICATIONS/SUGGESTED WORKING DILUTIONS*

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 91.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

*Optimal dilutions should be determined by researchers for the specific applications.

FOR RESEARCH USE ONLY.

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DATA ATTACHMENTS



Western Blot: The tissue lysate derived from GH stimulated mouse liver was immunoblotted by Rabbit anti STAT1 (pY701) antibody (Cat#620-160) at 1:500. Observed a major immunoreactive band at molecular weight ~91 kDa.

REFERENCES

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