

STAT1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 251896

Unit: 0.1 mg

Description:

Signal transducer and activator of transcription 1-alpha/beta (STAT1) mediates signaling by interferons (IFNs). Following type I IFN (IFN-alpha and IFN-beta) binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize, associate with ISGF3G/IRF-9 to form a complex termed ISGF3 transcription factor, that enters the nucleus. ISGF3 binds to the IFN stimulated response element (ISRE) to activate the transcription of interferon stimulated genes, which drive the cell in an antiviral state. STAT1 is tyrosine- and serine-phosphorylated in response to type II IFN (IFN-gamma). STAT1 deficiency results in impaired immune response leading to severe mycobacterial and viral diseases. In the case of complete deficiency, patients can die of viral disease.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

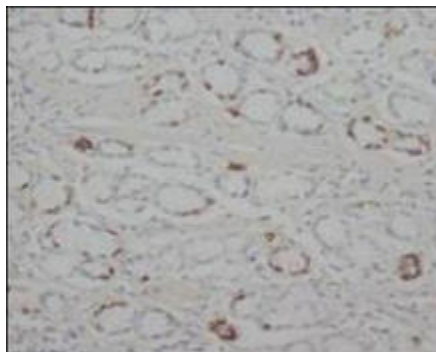
Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4, 50% glycerol with 0.09% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84; STAT1

Accession No.: P42224

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human STAT1.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500



STAT1 staining in human ventriculi carcinoma. Paraffin-embedded human ventriculi carcinoma is stained with STAT1 Antibody (Cat. No. 251896) used at 1:200 dilution.;The STAT1 Antibody is used in Western blot to detect STAT1 in human colon carcinoma lysates.

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.