



Affinity-Purified Rabbit Anti-phospho-STAT 2 (Y689) Antibody

Specificity: Human phospho-STAT 2 (Y689)	Size: 0.1 mg
Source: Rabbit	IgG Type: rabbit IgG

Background:

Signal transducer and activator of transcription that mediates signaling by type I IFNs (IFN-alpha and IFN-beta). Following type I IFN binding to cell surface receptors, Jak kinases (TYK2 and JAK1) are activated, leading to tyrosine phosphorylation of STAT1 and STAT2. The phosphorylated STATs dimerize and 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.

Other Name: **Signal transducer and activator of transcription 2**

Specificity:

Human:

Positive

Application : For western blot analysis, an antibody concentration of 1 µg/ml is recommended

ELISA

Western blotting
Immunohistochemistry
Immunoprecipitation
Flow cytometry

Positive
Positive 1 mg/ml
Positive
Positive
Positive

Isotype: Rabbit IgG

Description: This antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding the phospho sites.

Storage: Upon reconstitution, maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C to -70°C. Lyophilized samples are stable for twelve months from the date of receipt when stored at -20°C to -70°C

Format: Purified rabbit monoclonal antibody supplied in PBS with 0.02% (W/V) sodium azide. This antibody is first purified by protein G affinity chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with the control and phosphorylated peptides. The phospho-specific antibody is eluted with high and low salt and neutralized immediately, followed by dialysis against PBS.

Precautions: This product is for research use only. Not for use in diagnostic or therapeutic procedures.

References:

- [Randall R.E.](#); "Simian virus 5 V protein acts as an adaptor, linking DDB1 to STAT2, to facilitate the ubiquitination of STAT1."; *J. Virol.* 79:13434-13441(2005).
- [Horvath C.M.](#); "Role of metazoan mediator proteins in interferon-responsive transcription."; *Mol. Cell. Biol.* 23:620-628(2003).
- [Julkunen I.](#); "Arginine/lysine-rich structural element is involved in interferon-induced nuclear import of STATs."; *J. Biol. Chem.* 276:16447-16455(2001).