

35-1519: Polyclonal Antibody to STAT1 (Ab-727)

Clonality :	Polyclonal
Application :	WB,IHC
Reactivity :	Human,Mouse
Gene :	STAT1
Gene ID :	6772
Uniprot ID :	P42224
Format :	Purified
Alternative Name :	ISGF-3, STAT91
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around aa.725~729 (P-M-S-P-E) derived from Human STAT1.

Description

Signal transducer and activator of transcription that mediates signaling by interferons (IFNs). Following type I IFN (IFN- α and IFN- β) 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. In response to type II IFN (IFN- γ), STAT1 is tyrosine- and serine-phosphorylated. It then forms a homodimer termed IFN- γ -activated factor (GAF), migrates into the nucleus and binds to the IFN γ activated sequence (GAS) to drive the expression of the target genes, inducing a cellular antiviral state.

Product Info

Amount :	50 μ l / 100 μ l
Content :	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 91kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

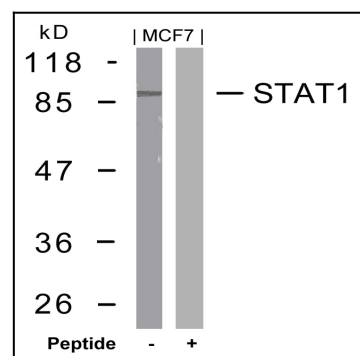


Figure 1: Western blot analysis of extracts from MCF7 cells using STAT1(Ab-727) Antibody 35-1519 and the same antibody preincubated with blocking peptide.

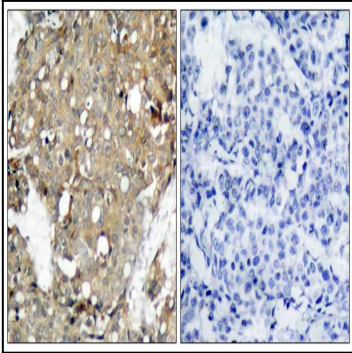


Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using STAT1(Ab-727) Antibody 35-1519 (left) or the same antibody preincubated with blocking peptide(right).