STAT1 (Ab-727) Antibody

PACO22938

Product Information

Size:

100ul

Reactivity:

Human, Mouse, Rat

Source:

Rabbit

Isotype:

IgG

Applications:

ELISA, WB, IHC

Recommended dilutions:

ELISA:1:2000-1:10000, WB:1:500-1:1000, IHC:1:50-1:200

Protein Background:

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

Gene ID:

STAT1

Uniprot
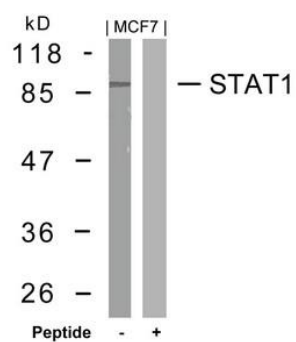
P42224

Synonyms:

ISGF-3; STAT91;

Immunogen:

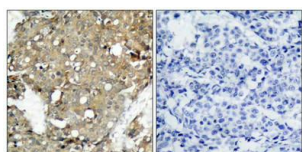Peptide sequence around aa.725~729 (P-M-S-P-E) derived from Human STAT1.

Storage:

Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Product Images

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

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