

Product datasheet for **AM00147PU-N**

STAT1 pSer727 (incl. pos. control) Mouse Monoclonal Antibody [Clone ID: 12C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	12C5
Applications:	ELISA, WB
Recommended Dilution:	Western Blot: 0.5 µg/ml for HRPO/ECL detection. Recommended blocking buffer: Casein/Tween 20 based blocking and blot incubation buffer. ELISA: 0.05 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Synthetic phosphopeptide conjugated to KLH
Specificity:	This antibody specifically recognizes STAT1 phosphorylated at Ser 727. The antibody does not crossreact with the non-phosphorylated form of STAT1 nor with unrelated serine-phosphorylated proteins.
Formulation:	0.1mg/ml in in PBS/0.09% Na-Azide/PEG and Sucrose/50% Glycerol State: Purified State: Liquid purified IgG
Purification:	Size exclusion chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	signal transducer and activator of transcription 1
Database Link:	Entrez Gene 6772 Human P42224



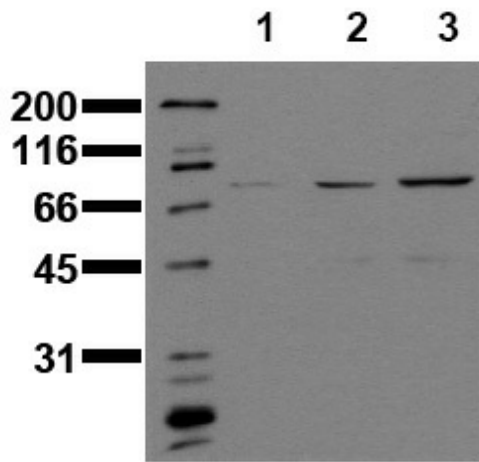
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Background:

The STAT proteins serve as both cytoplasmic signal transducers and nuclear activators of transcription. STATs are mediators involved in cytokine signalling. In response to a specific cytokine signal, STAT proteins are phosphorylated on conserved tyrosine residues. Phosphorylated STAT proteins dimerize via their SH2 domains and move to the nucleus. The STAT dimers bind to specific DNA elements resulting in transcriptional regulation of downstream target genes. STAT1 is activated by phosphorylation at serine 727. The phosphorylation state of Ser 727 regulates transcription and apoptosis. STAT1 can bind to DNA as heterodimer with STAT3.

Synonyms:

DKFZp686B04100; ISGF-3; OTTHUMP00000205845; STAT91

Product images:

Phosphospecificity Whole cell extracts of control (1), EGF stimulated (2) or pervanadate treated (3) A549 tumor cells were applied to SDS-PAGE (ca 20.000 cells per lane) and transferred to a PVDF membrane. The immunoblot was probed with mab STAT1-12C5 (0.5