Product Data Sheet:
Phospho-Stat1 (S727) Rabbit Polyclonal Antibody

Cat. No:	ABP-0453
Conjugate:	Unconjugated
Size:	100 ug
Clone:	Poly
Concentration:	1mg/ml
Host:	Rabbit
Isotype:	IgG
Immunogen:	The antiserum was produced against synthesized peptide derived from human STAT1 around the phosphorylation site of Ser727. AA range:694-743
Reactivity:	Hu, Ms, Rt
Applications:	Western Blot: 1/500 - 1/2000 Immunohistochemistry: 1/100 - 1/300 ELISA: 1/10000.
Molecular Weight:	87kDa
Purification:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Synonyms:	STAT1; Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84
Background:	Stat1, while activated in response to a large number of ligands (1), appears to be essential for responsiveness to IFN-a and IFN-g (2,3). Phosphorylation of Stat1 at Tyr701 induces Stat1 dimerization, nuclear translocation and DNA binding (4). Stat1 has two isoforms, Stat1a (91 kDa) and the splice variant Stat1b (84 kDa). In most cells, both isoforms are activated by IFN-a, but only Stat1a is activated by IFN-g. Stat1 has been found to be inappropriately activated in many tumors (5). In addition to tyrosine phosphorylation, Stat1 is phosphorylated through a p38 mitogen-activated protein kinase (MAPK)-dependent pathway at Ser727 in response to IFN-a and other cellular stresses (6). Serine phosphorylation may be required for the maximal induction of Stat1-mediated gene activation.Phospho-Stat1 (Ser727) Antibody detects endogenous levels of Stat1a only when phosphorylated at Ser727. This site is deleted in Stat1b. This antibody does not significantly cross-react with the corresponding phosphorylated residues of other Stat proteins.
Form:	liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage:	Store at -20°C, and avoid repeat freeze-thaw cycles.

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