Product Datasheet

Phospho-STAT1 (Y701) Antibody

Catalog No: CY5917 Reactivity: Human

Isotype: Rabbit IgG Applications: WB

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Information

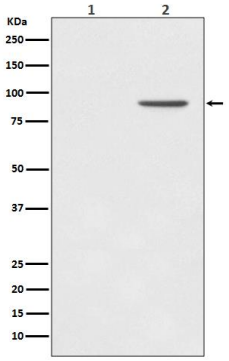
UniProt ID: P42224
All Names: CANDF7; ISGF 3; Signal transducer and activator of transcription 1; Signal transducer and activator of transcription 1, 91kDa; Signal transducer and activator of transcription 1-alpha/beta; Stat1; STAT91; Transcription factor ISGF-3 components p91/p84;
Form: Liquid
Storage instructions: Store at +4℃ short term. Store at -20℃ long term. Avoid freeze / thaw cycle.
Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity: Affinity-chromatography
Immunogen: A synthesized peptide
Molecular Wt.: 87 kDa

Application

WB 1:1000~1:2000

Background

The Stat1 transcription factor is activated in response to a large number of ligands and is essential for responsiveness to IFN-α and IFN-γ. Stat1 protein exists as a pair of isoforms, Stat1α (91 kDa) and the splice variant Stat1β (84 kDa). In most cells, both isoforms are activated by IFN-α, but only Stat1α is activated by IFN-γ. The inappropriate activation of Stat1 occurs in many tumors. In addition to tyrosine phosphorylation, Stat1 is also phosphorylated at Ser727 through a p38 mitogen-activated protein kinase (MAPK)-dependent pathway in response to IFN-α and other cellular stresses. Serine phosphorylation may be required for the maximal induction of Stat1-mediated gene activation.



Western blot analysis of Phospho-STAT1 (Y701) expression in (1) A431 cell lysate; (2) A431 cell treated with EGF lysate.