

Stat1 (phospho Ser727) rabbit pAb**Cat#: orb770169 (Manual)**

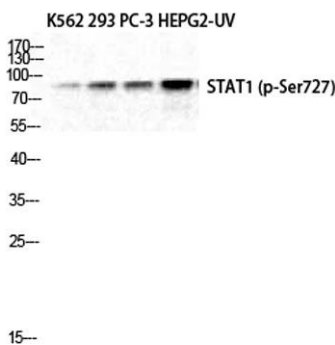
For research use only. Not intended for diagnostic use.

| | |
|---------------------------------|---|
| Product Name | Stat1 (phospho Ser727) rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human STAT1 around the phosphorylation site of Ser727. AA range:694-743 |
| Specificity | Phospho-Stat1 (S727) Polyclonal Antibody detects endogenous levels of Stat1 protein only when phosphorylated at S727. |
| Formulation | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| Storage | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| Protein Name | Signal transducer and activator of transcription 1-alpha/beta |
| Gene Name | STAT1 |
| Cellular localization | Cytoplasm . Nucleus . Translocated into the nucleus upon tyrosine phosphorylation and dimerization, in response to IFN-gamma and signaling by activated FGFR1, FGFR2, FGFR3 or FGFR4 (PubMed:15322115). Monomethylation at Lys-525 is required for phosphorylation at Tyr-701 and translocation into the nucleus (PubMed:28753426). Translocates into the nucleus in response to interferon-beta stimulation (PubMed:26479788). . |

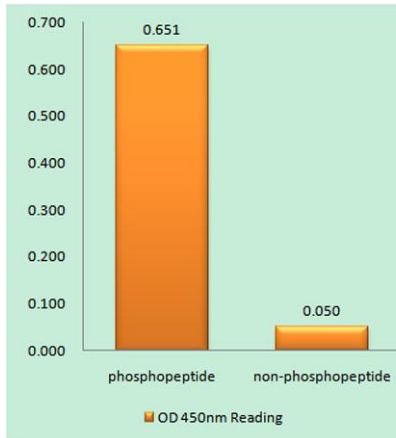
| | |
|--------------------------------|---|
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 87kD |
| Human Gene ID | 6772 |
| Human Swiss-Prot Number | P42224 |
| Alternative Names | STAT1; Signal transducer and activator of transcription 1-alpha/beta; Transcription factor ISGF-3 components p91/p84 |

Background

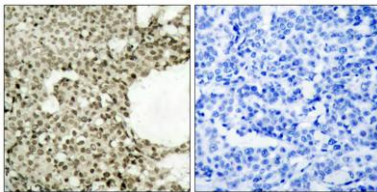
The protein encoded by this gene is a member of the STAT protein family. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein can be activated by various ligands including interferon-alpha, interferon-gamma, EGF, PDGF and IL6. This protein mediates the expression of a variety of genes, which is thought to be important for cell viability in response to different cell stimuli and pathogens. Two alternatively spliced transcript variants encoding distinct isoforms have been described. [provided by RefSeq, Jul 2008],



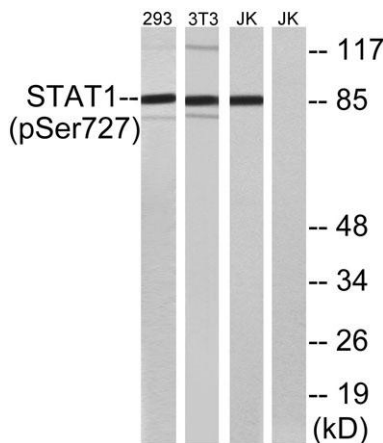
Western Blot analysis of K562 293 PC-3 HepG2-UV cells using Phospho-Stat1 (S727) Polyclonal Antibody diluted at 1:1000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using STAT1 (Phospho-Ser727) Antibody



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using STAT1 (Phospho-Ser727) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from 293 cells, 3T3 cells treated with UV (15mins) and Jurkat cells treated with eto (25uM, 24hours), using STAT1 (Phospho-Ser727) Antibody. The lane on the right is blocked with the phospho peptide.