

**Stat5a/b (phospho Ser726/731) rabbit pAb****Cat#: orb770176 (Manual)**

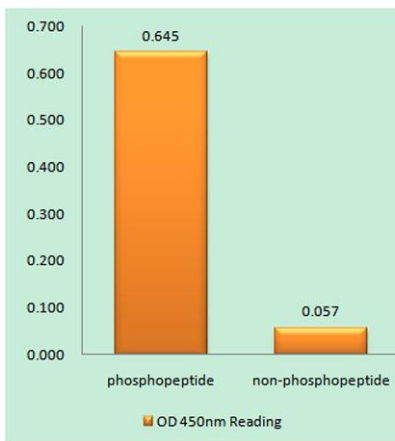
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Stat5a/b (phospho Ser726/731) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Species Cross-Reactivity</b>	Human;Mouse;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human STAT5A/B around the phosphorylation site of Ser725/730. AA range:696-745
<b>Specificity</b>	Phospho-Stat5a/b (S726/731) Polyclonal Antibody detects endogenous levels of Stat5a/b protein only when phosphorylated at S726/731.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Signal transducer and activator of transcription 5A/B
<b>Gene Name</b>	STAT5A/STAT5B
<b>Cellular localization</b>	Cytoplasm . Nucleus . Translocated into the nucleus in response to phosphorylation.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal

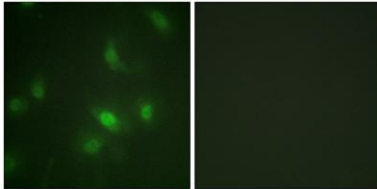
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	91kD
<b>Human Gene ID</b>	6776/6777
<b>Human Swiss-Prot Number</b>	P42229/P51692
<b>Alternative Names</b>	STAT5A; STAT5; Signal transducer and activator of transcription 5A; STAT5B; Signal transducer and activator of transcription 5B

## Background

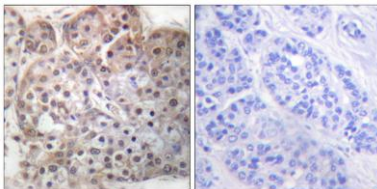
The protein encoded by this gene is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. Alternatively spliced transcript variants have been



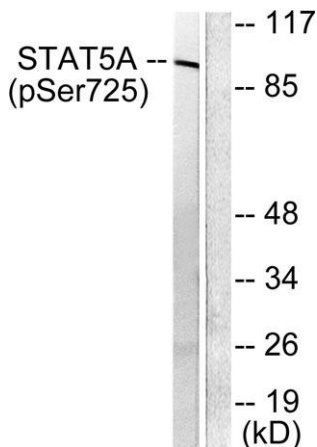
**Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using STAT5A/B (Phospho-Ser725/730) Antibody**



**Immunofluorescence analysis of HepG2 cells, using STAT5A/B (Phospho-Ser725/730) Antibody. The picture on the right is blocked with the phospho peptide.**



**Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using STAT5A/B (Phospho-Ser725/730) Antibody. The picture on the right is blocked with the phospho peptide.**



**Western blot analysis of lysates from Jurkat cells treated with EGF 200ng/ml 30', using STAT5A/B (Phospho-Ser725/730) Antibody. The lane on the right is blocked with the phospho peptide.**