Stat5 (phospho Ser726/731) rabbit pAb

Cat#: orb764354 (Manual)

For research use only. Not intended for diagnostic use.

Product Name	Stat5 (phospho Ser726/731) 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: 1/40000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human STAT5B around the phosphorylation site of Ser731. AA range:697-746
Specificity	Phospho-Stat5 (S726/731) Polyclonal Antibody detects endogenous levels of Stat5 protein only when phosphorylated at S726/731.
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 5A/B
Gene Name	STAT5A/STAT5B
Cellular localization	Cytoplasm . Nucleus . Translocated into the nucleus in response to phosphorylation.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal

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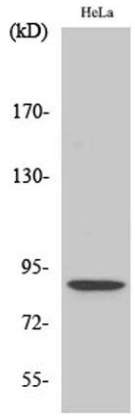
Concentration	1 mg/ml
Observed band	90kD
Human Gene ID	6777
Human Swiss-Prot Number	P42229/P51692
Alternative Names	STAT5A; STAT5; Signal transducer and activator of transcription 5A; STAT5B; Signal transducer and activator of transcription 5B

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



Western Blot analysis of various cells using Phospho-Stat5 (S726/731) Polyclonal Antibody diluted at 1:500

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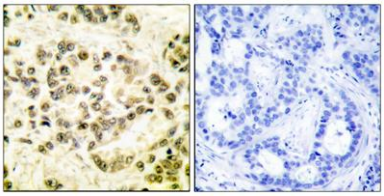
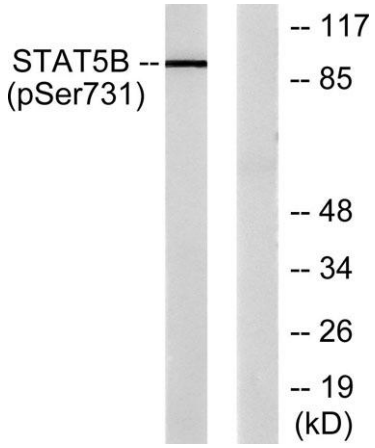


Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using STAT5B (Phospho-Ser731) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from RAW264.7 cells treated with EGF 200ng/ml 30', using STAT5B (Phospho-Ser731) Antibody. The lane on the right is blocked with the phospho peptide.

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