

Anti-STAT5 Antibody

Catalog # AP60133

Product Information

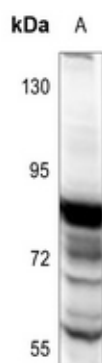
Application	WB, IHC, IF/IC
Primary Accession	P42229
Other Accession	P51692
Reactivity	Human, Mouse, Rat, Pig, Chicken, Bovine, Sheep, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90647

Additional Information

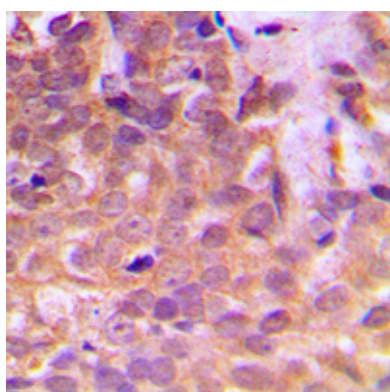
Gene ID	6776
Other Names	STAT5A; STAT5; Signal transducer and activator of transcription 5A; STAT5B; Signal transducer and activator of transcription 5B
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human STAT5. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

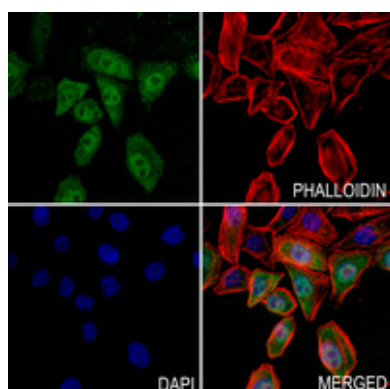
Name	STAT5A
Synonyms	STAT5
Function	Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. Mediates cellular responses to ERBB4. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL- induced transcription. Regulates the expression of milk proteins during lactation.
Cellular Location	Cytoplasm. Nucleus. Note=Translocated into the nucleus in response to phosphorylation



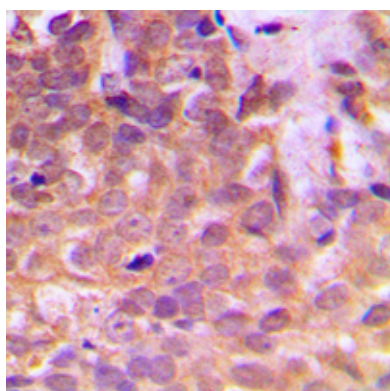
Western blot analysis of STAT5 expression in HeLa (A) whole cell lysates. (Predicted band size: 90; 89 kD; Observed band size: 90 kD)



Immunohistochemical analysis of STAT5 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of STAT5 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).



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