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Product datasheet for CF500006

STAT5A Mouse Monoclonal Antibody [Clone ID: OTI4H1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4H1
Applications:	IHC, WB
Recommended Dilution:	WB 1:200~500, IHC 1:50
Reactivity:	Human, Rat, Mouse
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 2-104 of human Stat5a (NP_003143) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	90.5 kDa
Gene Name:	Homo sapiens signal transducer and activator of transcription 5A (STAT5A), transcript variant 2, mRNA.
Database Link:	NP_003143 Entrez Gene 20850 MouseEntrez Gene 24918 RatEntrez Gene 6776 Human P42229

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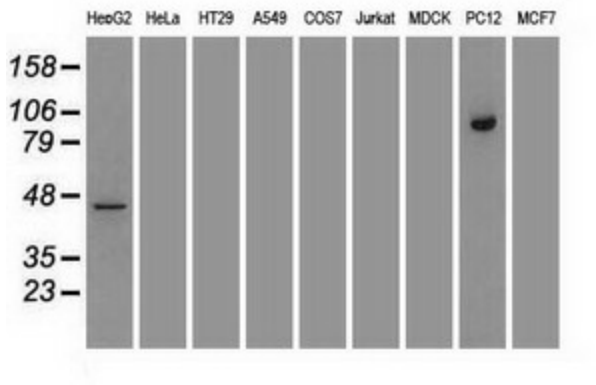
Background: Stat5a is a member of the STAT family of transcription factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription 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 the 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.

Synonyms: MGF; STAT5

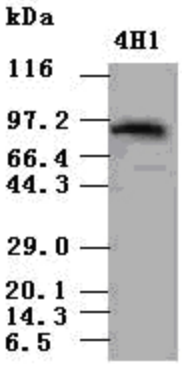
Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway, Transcription Factors

Protein Pathways: Acute myeloid leukemia, Chronic myeloid leukemia, ErbB signaling pathway, Jak-STAT signaling pathway, Pathways in cancer

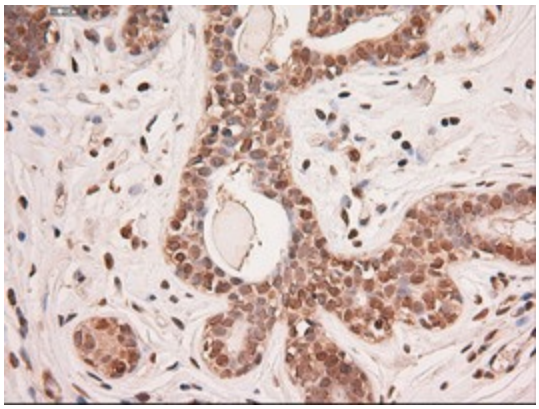
Product images:



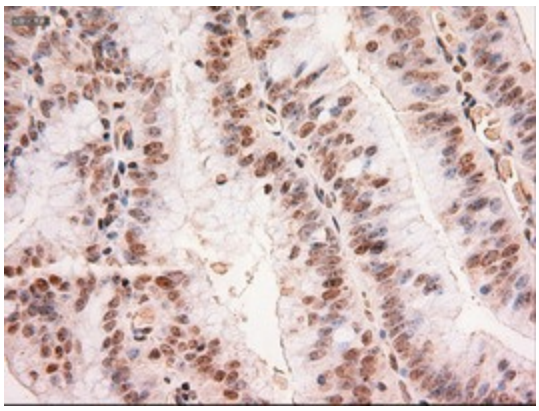
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-Stat5a monoclonal antibody.



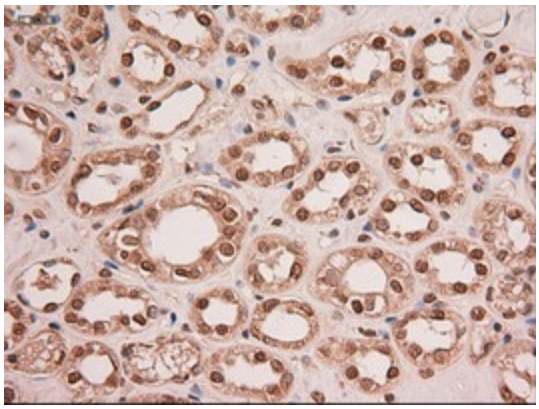
STAT5a antibody (4H1) at 1:500 dilution + lysate from 293T cells transfected with human Stat5a expression vector (Cat# [RC205753])



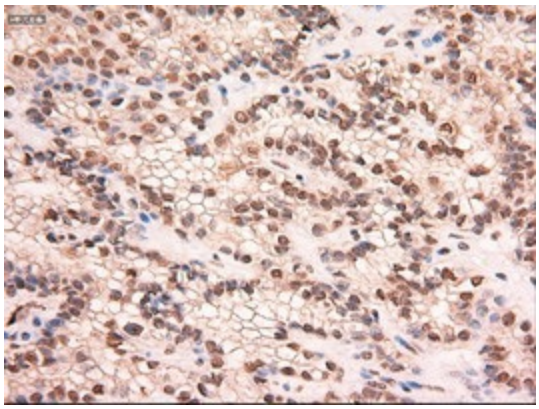
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



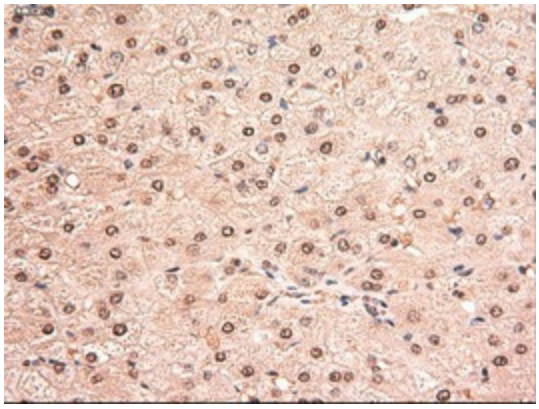
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



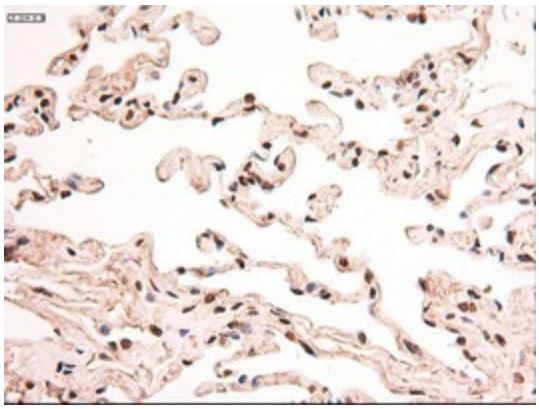
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



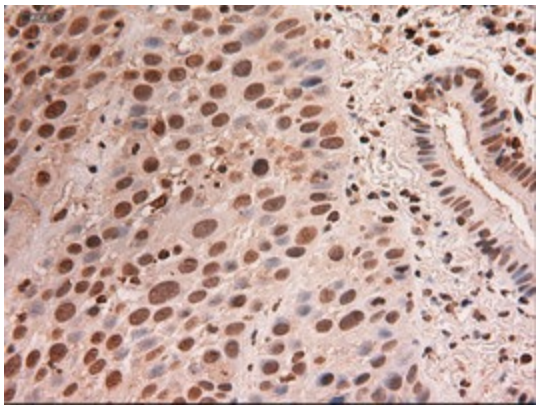
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



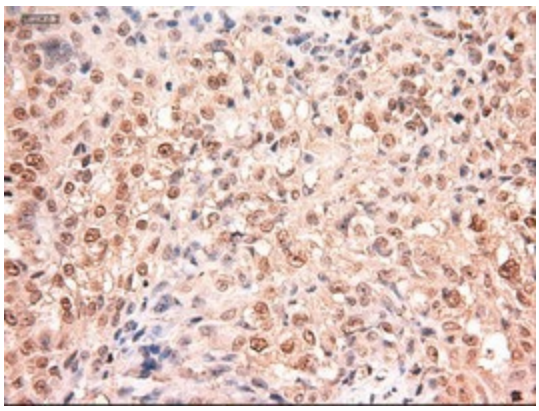
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



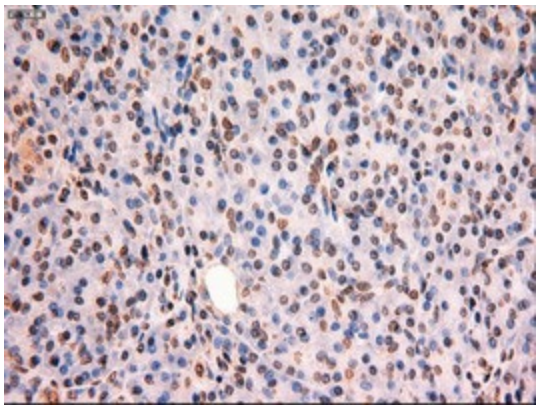
Immunohistochemical staining of paraffin-embedded Human lung tissue within the normal limits using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



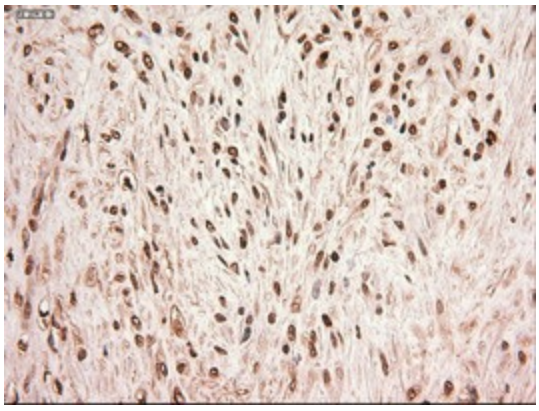
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



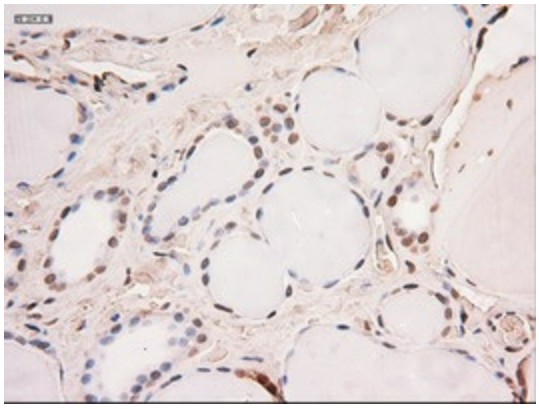
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



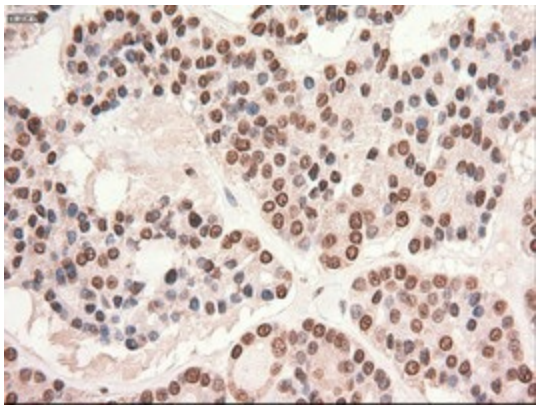
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



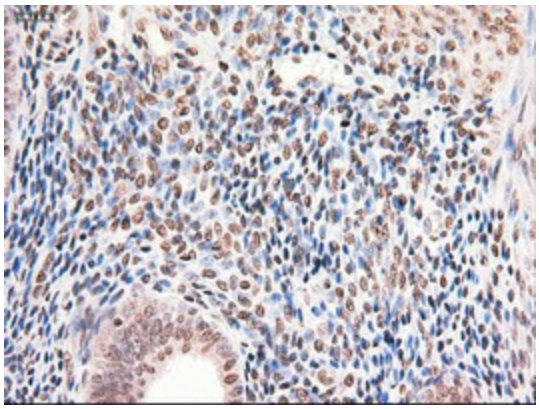
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])



Immunohistochemical staining of paraffin-embedded Human endometrium tissue within the normal limits using anti-Stat5a mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 100°C for 10min, [TA500006])