

For Research Use Only

STAT5A Monoclonal antibody

Catalog Number: 66459-1-Ig **4 Publications**



Basic Information

Catalog Number: 66459-1-Ig	GenBank Accession Number: BC027036	Purification Method: Protein A purification
Source: Mouse	GeneID (NCBI): 6776	CloneNo.: 1F10F6
Isotype: IgG2a	UNIPROT ID: P42229	Recommended Dilutions: WB: 1:2000-1:16000 IF/ICC: 1:200-1:800
Immunogen Catalog Number: AG19546	Full Name: signal transducer and activator of transcription 5A	
	Calculated MW: 794 aa, 92 kDa	
	Observed MW: 95 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : RAW 264.7 cells, U-937 cells, rat spleen tissue, pig spleen tissue IF/ICC : HepG2 cells,
Cited Applications: WB, IF, ColP	
Species Specificity: human, mouse, rat, pig	
Cited Species: human, mouse	

Background Information

STAT5A, also named as STAT5, belongs to the transcription factor STAT 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. STAT5A is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different GHs. Activation of STAT5A 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 human STAT5A is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of STAT5A in cells.

Notable Publications

Author	Pubmed ID	Journal	Application
Jing-Bo Liu	41924941	J Agric Food Chem	WB
Jiping Liao	41108282	J Med Chem	WB
Qichao Wu	39030705	Acta Biochim Biophys Sin (Shanghai)	WB,IF,ColP

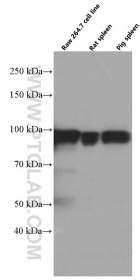
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

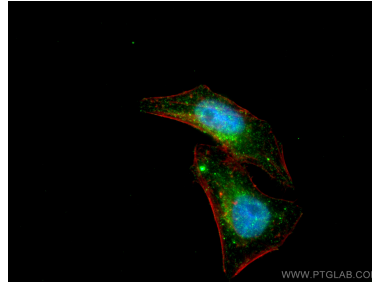
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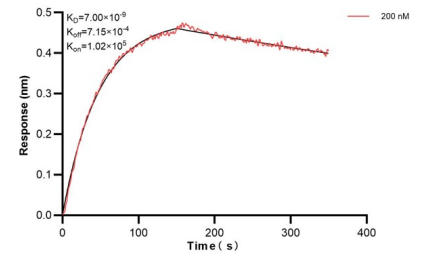
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 66459-1-Ig (STAT5A antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using STAT5A antibody (66459-1-Ig, Clone: 1F10F6) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assay of 66459-1-Ig against Human STAT5A was performed. The affinity constant is 7.00 nM.