

# Phospho-STAT5 alpha (Tyr694) Recombinant Rabbit Monoclonal Antibody (6H5L15)

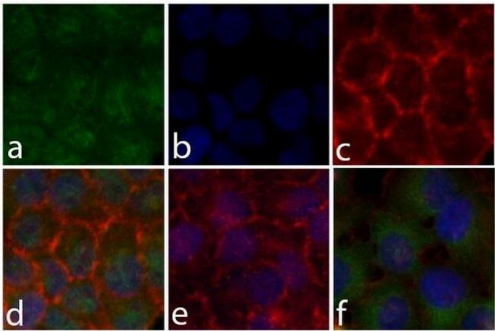
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse, Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Monoclonal
Type	Antibody
Clone	6H5L15
Conjugate	Unconjugated
Immunogen	Phosphopeptide corresponding to amino acids 688-698 of human STAT5a
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS
Contains	0.09% sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2532365

Applications	Tested Dilution	Publications
Western Blot (WB)	2-5 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Immunocytochemistry (ICC/IF)	2-4 µg	-
ChIP assay (ChIP)	3 µg	1 Publication

## Product Specific Information

Intact IgG appears on a non-reducing gel as ~150 kDa band and upon reduction generating a ~25 kDa light chain band and a ~50 kDa heavy chain.

Recombinant rabbit monoclonal antibodies are produced using in vitro expression systems. The expression systems are developed by cloning in the specific antibody DNA sequences from immunoreactive rabbits. Then, individual clones are screened to select the best candidates for production. The advantages of using recombinant rabbit monoclonal antibodies include: better specificity and sensitivity, lot-to-lot consistency, animal origin-free formulations, and broader immunoreactivity to diverse targets due to larger rabbit immune repertoire.

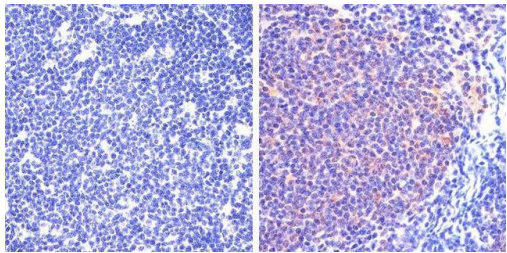


**Phospho-STAT5 alpha (Tyr694) Antibody (701063)**

Modulation of expression of target protein by cell treatment demonstrates antibody specificity. Immunofluorescence analysis of Phospho-STAT5 alpha (Tyr694) using anti- STAT5A[Y694] rabbit monoclonal antibody (Product # 701063) shows translocation of Phospho-STAT5 (pTyr694)in the HeLa cell upon treatment with IFNalpha in serum starved condition. {TM}

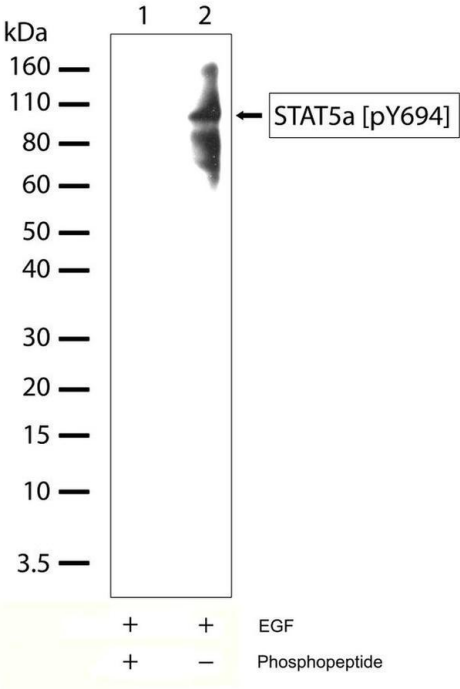
**Phospho-STAT5 alpha (Tyr694) Antibody (701063) in IHC (P)**

Immunohistochemistry analysis of STAT5A (pY694) showing staining in the cytoplasm and nucleus of paraffin-embedded human diffuse large B cell lymphoma (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a STAT5A (pY694) Monoclonal Antibody (clone 6H5L15), Recombinant (Product # 701063) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



**Phospho-STAT5 alpha (Tyr694) Antibody (701063) in WB**

Western blot analysis of Phospho-STAT5 pTyr694 in whole cell extracts of A431 cells treated with EGF (100 ng/mL, 5 min) using a Phospho-STAT5 pTyr694 recombinant rabbit monoclonal antibody (Product # 701063) at a dilution of 2.5 µg /mL. To confirm specificity, competition was performed by preincubation with the phosphopeptide to inhibit antibody binding (lane 1). Results show a band at ~90 kDa.



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Western Blot (1)

Nutrients	Year 2022
<b>Modulation of Milk and Lipid Synthesis and Secretion in a3-Dimensional Mouse Mammary Epithelial Cell Culture Model: Effects of Palmitate and Orlistat.</b>	Species Mouse
"701063 was used in Western Blotting to demonstrate the ability to examine MEC pathways of milk production via both protein and mRNA and to modulate select pathways regulating milk composition in MEC culture."	
Authors: Ross MG,Kobayashi K,Han G,Desai M	

ChIP assay (1)

Nature	Year 2019
<b>Fatty acid transport protein 2 reprograms neutrophils in cancer.</b>	Species Human
"701063 was used in Chromatin immunoprecipitation to investigate the mechanisms responsible for the pathological activation of neutrophils."	
Authors: Veglia F,Tyurin VA,Blasi M,De Leo A,Kossenkov AV,Donthireddy L,To TKJ,Schug Z,Basu S,Wang F,Ricciotti E,DiRusso C,Murphy ME,Vonderheide RH,Lieberman PM,Mulligan C,Nam B,Hockstein N,Masters G,Guarino M,Lin C,Nefedova Y,Black P,Kagan VE,Gabrilovich DI	

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