

STAT3 Recombinant Polyclonal Antibody

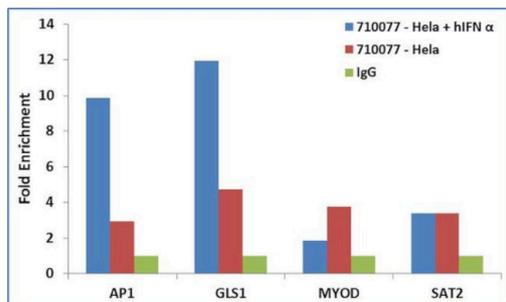
Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human
Host/Isotype	Rabbit / IgG
Expression system	Expi293
Class	Recombinant Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to amino acids 1-220 of human STAT3
Form	Liquid
Concentration	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_2532546

Applications	Tested Dilution	Publications
Western Blot (WB)	2-5 µg/mL	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:10-1:100	-
Immunocytochemistry (ICC/IF)	5 µg/mL	-
ELISA (ELISA)	Assay-Dependent	-
ChIP assay (ChIP)	2.5 µg/1x10 ⁶ cells	1 Publication

Product Specific Information

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

Product Images For STAT3 Recombinant Polyclonal Antibody

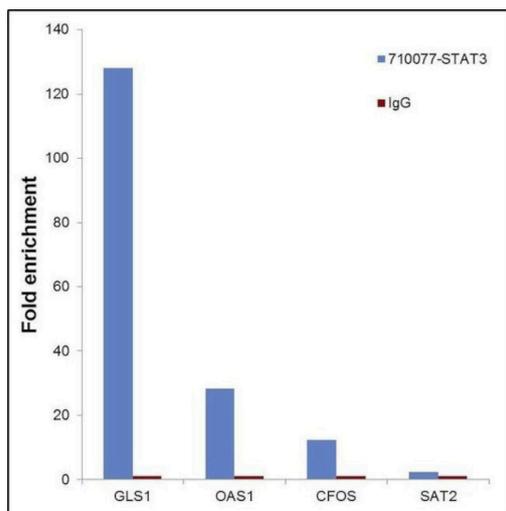
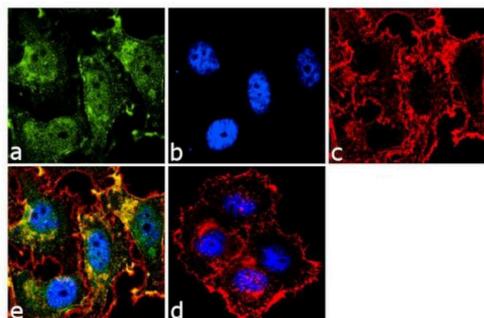


STAT3 Antibody (710077)

Antibody specificity was demonstrated by detection of enrichment of the target protein at specific gene loci. Chromatin Immunoprecipitation (ChIP) was performed on HeLa cells and HeLa cells treated with 100 ng/mL of IFN alpha for 30 minutes using Anti-STAT3 Recombinant Rabbit Polyclonal Antibody (Product # 710077) with relevant positive (AP1, GLS1) and negative (MYOD, SAT2) target genes/ binding sites. {RE}

STAT3 Antibody (710077) in ICC/IF

Immunofluorescence analysis of STAT3 was done on 70% confluent log phase MCF-7 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with STAT3 Antibody (3HCLC), Recombinant Rabbit Polyclonal Antibody (Product # 710077) at 1 μ g/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d is a merged image showing Nuclear and Cytoplasmic localization. Panel e is a no primary antibody control. The images were captured at 60X magnification.



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View more figures on thermofisher.com

3 References

Western Blot (2)

Neural regeneration research

Krüppel-like factor 7 attenuates hippocampal neuronal injury after traumatic brain injury.

"Published figure using STAT3 recombinant polyclonal antibody (Product # 710077) in Western Blot"

Authors: Li WY,Fu XM,Wang ZD,Li ZG,Ma D,Sun P,Liu GB,Zhu XF,Wang Y

Year
2022

Experimental and therapeutic medicine

Role and mechanism of nursing cooperation and tetramethylpyrazine application in post-operative pain in patients undergoing total knee arthroplasty.

"710077 was used in Western Blotting to investigate the effect of nursing cooperation on the post-operative complication of pain following total knee arthroplasty and to explore the effects of tetramethylpyrazine application on post-TKA pain."

Authors: Liu C,Liu R,Tang M,Yang X,Gong X

Year
2019

Species
Human

Dilution
1:100

ChIP assay (1)

iScience

Targeting myeloid suppressive cells revives cytotoxic anti-tumor responses in pancreatic cancer.

"710077 was used in Chromatin immunoprecipitation to demonstrate that expression of the scavenger receptor MARCO correlates with poor prognosis and a lymphocyte-excluding tumor phenotype."

Authors: Sarhan D,Eisinger S,He F,Bergsland M,Pelicano C,Driescher C,Westberg K,Benitez II,Humoud R,Palano G,Li S,Carannante V,Muhr J,Önfelt B,Schlisio S,Ravetch JV,Heuchel R,Löhr MJ,Karlsson MCI

Year
2022

Species
Human

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