

GSK3B Recombinant Polyclonal Antibody (1HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate
Host/Isotope	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Clone	1HCLC
Conjugate	Unconjugated
Immunogen	Recombinant protein corresponding to amino acids 317–433 of human GSK3 beta
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_2532582

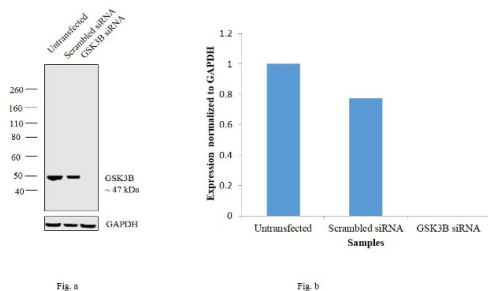
Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	5 µg/mL	
Immunofluorescence (IF)	✓	5 µg/mL	
Western Blot (WB)	✓	1 µg/mL	

Product Specific Information

This antibody is predicted to react with equine, mouse, rabbit and rat based on sequence homology.

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.

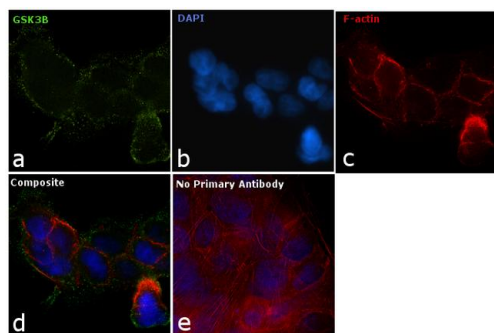
Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds – the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - 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.



GSK3B Antibody (710132)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with GSK3B siRNA and loss of signal was observed in Western Blot using Anti-GSK3B Oligo clonal Antibody (Product # 710132). KnockDown validation info.

Product Images For GSK3B Recombinant Polyclonal Antibody (1HCLC)

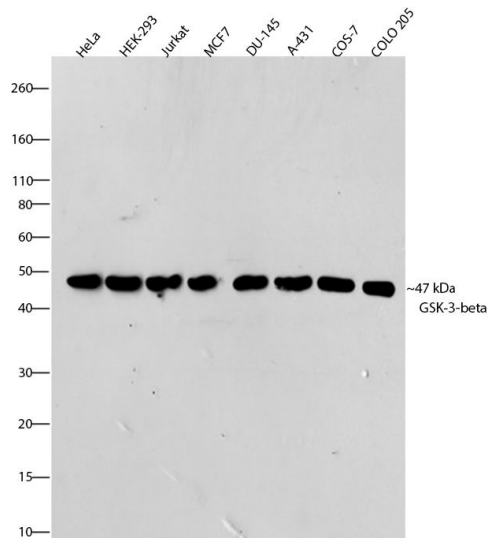


GSK3B Antibody (710132) in IF

Immunofluorescence analysis of GSK3B was performed using 70% confluent log phase A-431 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 GSK3 Rabbit Polyclonal Antibody (Product # 710132) at 5 µg/mL in 0.1% BSA and incubated overnight at 4 degree and then labeled with Goat anti-Rabbit IgG (H+L) 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 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

GSK3B Antibody (710132) in WB

Western blot analysis of GSK-3-beta was performed by loading 30 µg of HeLa, HEK-293, Jurkat, MCF-7, DU 145, A431, COS-7, and COLO 205 cell lysates using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (Product # LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5% skim milk for 1 hour at room temperature. GSK-3-beta was detected at ~47 kDa using GSK-3-beta Recombinant Rabbit Polyclonal Antibody (Product # 710132) at a 1:1000 dilution in 2.5% skim milk at 4°C overnight on a rocking platform. Detection was performed using an HRP-conjugated Goat anti-Rabbit secondary antibody (Product # G-21234) at a 1:5000 dilution and chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



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