

GSK3B Recombinant Polyclonal Antibody (1HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Non-human primate
Published Species	Rat
Host/Isotype	Rabbit / IgG
Expression system	Expi293
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	Publications
Western Blot (WB)	0.5-1 µg/mL	1 Publication
Immunocytochemistry (ICC/IF)	5 µg/mL	-

Product Specific Information

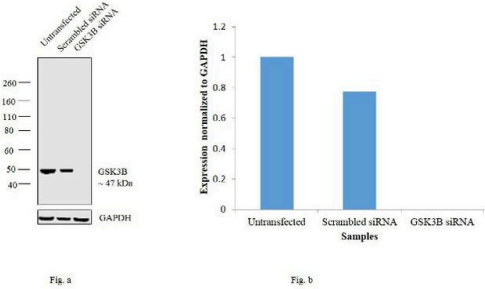
This antibody is predicted to react with equine, mouse, rabbit and rat based on sequence homology.

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 GSK3B Recombinant Polyclonal Antibody (1HCLC)

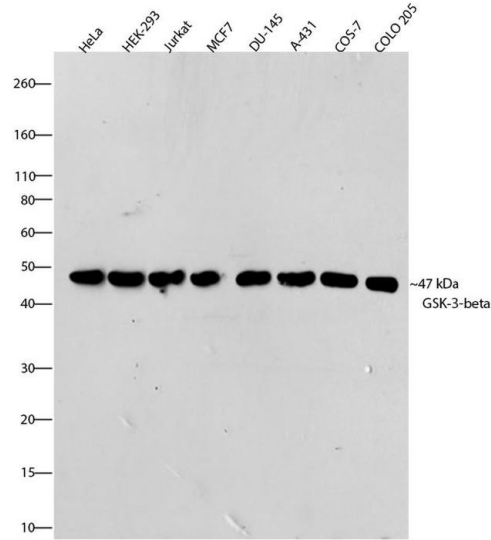
GSK3B Antibody (710132)

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). {KD}



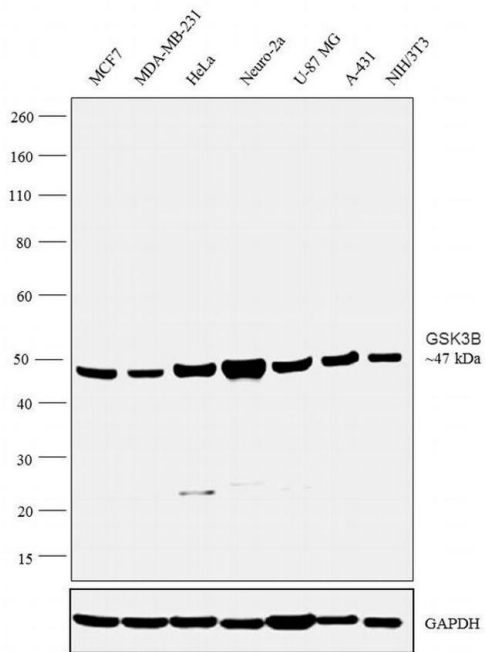
GSK3B Antibody (710132) in WB

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).



GSK3B Antibody (710132) in WB

Western blot analysis was performed on whole cell extracts of MCF7 (Lane 1), MDA-MB-231 (Lane 2), HeLa (Lane 3), Neuro-2a (Lane 4), U-87 MG (Lane 5), A-431 (Lane 6) and NIH/3T3 (Lane 7). The blot was probed with Anti-GSK3 antibody (Product # 710132, 1µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.25 µg/mL, 1:4000 dilution). A 47 kDa band corresponding to GSK3B was observed across the cell lines tested.



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Western Blot (1)

Drug design, development and therapy	Year 2019
Neuroprotective potential of ketamine prevents developing brain structure impairment and alteration of neurocognitive function induced via isoflurane through the PI3K/AKT/GSK-3 pathway.	Species Rat
"710132 was used in Western Blotting to conclude that ketamine prevented the cognitive impairment induced by isoflurane anesthesia through anti-apoptotic, anti-inflammatory, and antioxidant effects via the PI3K/AKT/GSK-3 pathway."	
Authors: Wang R,Zhang Z,Kumar M,Xu G,Zhang M	

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