TrkC Recombinant Rabbit Monoclonal Antibody (7H3L20)

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG
Class	Recombinant Monoclonal
Type	Antibody
Clone	7H3L20
Conjugate	Unconjugated
Immunogen	Protein corresponding to Human NTRK3 (aa 200-429)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
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_2633043

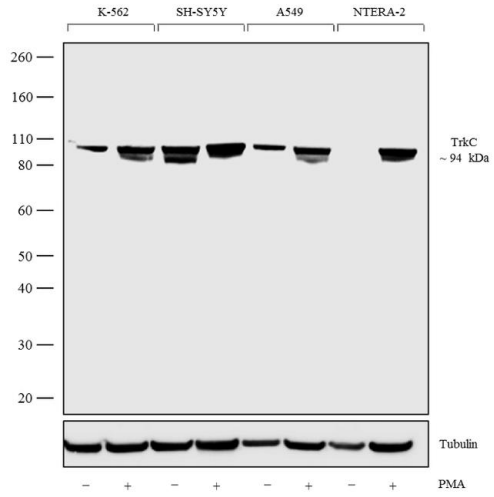
Applications	Tested	Dilution	Published
Immunocytochemistry (ICC)	✓	2 µg/mL	
Immunofluorescence (IF)	✓	2 µg/mL	
Western Blot (WB)	✓	1-2 µg/mL	

Product Specific Information

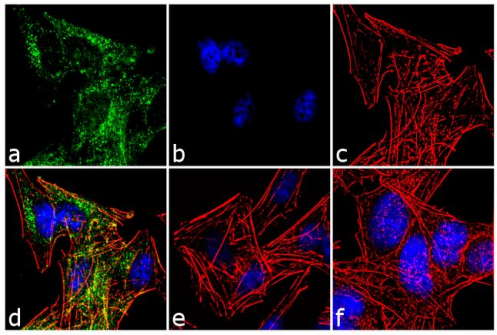
This antibody is predicted to react with Monkey, Mouse and Rat.

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.

Advanced Verification Data

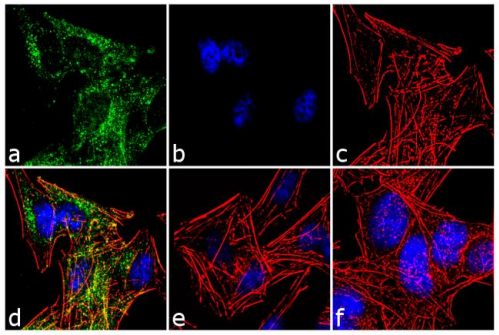


TrkC Antibody (701985)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Western blot of TrkC using Anti-TrkC Recombinant Rabbit Monoclonal Antibody (Product # 701985), shows increased expression of TrkC in K-562, A549 and NTERA-2 upon PMA treatment. Cell Treatment validation info.



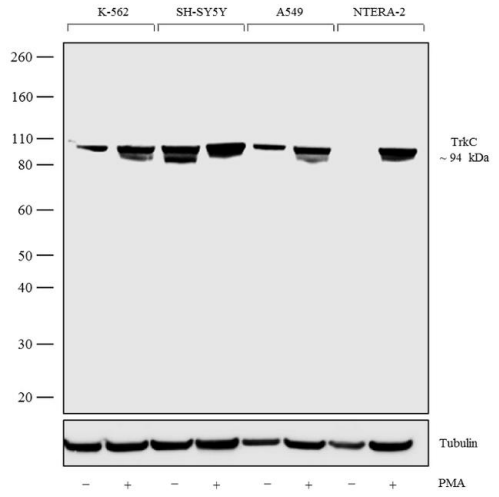
TrkC Antibody (701985)
Altered expression of proteins upon cell treatment demonstrates antibody specificity. Immunofluorescence of TrkC using Anti-TrkC Recombinant Rabbit Monoclonal Antibody (Product # 701985), shows increased expression of TrkC in SH-SY5Y cells upon retinoic acid treatment. Cell Treatment validation info.

Product Images For TrkC Recombinant Rabbit Monoclonal Antibody (7H3L20)



TrkC Antibody (701985) in IF

For immunofluorescence analysis, retinoic acid (10 uM, 72 hours) treated SH-SY5Y cells were fixed and permeabilized for detection of endogenous TrkC using Anti-TrkC Recombinant Rabbit Monoclonal Antibody (Product # 701985, 2 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of TrkC protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating membrane localization of TrkC. Panel e) shows untreated cells with no signal. Panel f) represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



TrkC Antibody (701985) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of K562 (Lane 1), K562 treated with PMA (200nM for 20 min) (Lane 2), SH-SY5Y (Lane 3), SH-SY5Y treated with PMA (200nM for 20 min) (Lane 4), A549 (Lane 5), A549 treated with PMA (200nM for 20 min) (Lane 6), NTERA-2 (Lane 7) and NTERA-2 treated with PMA (Lane 8). The blots were probed with TrkC Recombinant Rabbit Monoclonal Antibody (Product # 701985, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 94 kDa band corresponding to TrkC was observed in a treatment dependent manner in most cell lines tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).

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