

Anti-Tyrosine Kinase Receptor A (TrkA) Antibody

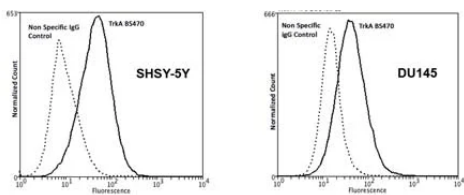


Product Details

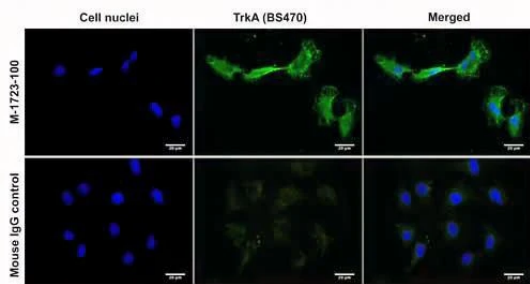
Available Variants	100 µg (SKU:M-1723-100)
Conjugate	Unconjugated
Clone	BS470
Host Species	Mouse
Format	IgG
Physical State	Lyophilized
Buffer	Lyophilized from PBS, pH 7.4, containing 3% trehalose without preservatives.
Production Notes	Protein G purified mouse immunoglobulin
Applications	Flow, ICC
Dilution Ranges	ICC: 1-5 µg/mL
Species Reactivity	Human
Immunogen	A synthetic peptide from the extracellular domain of human TrkA (C-SATVMKSGGLPS, aa: 235-246) has been used as the immunogen.
Specificity	TrkA. Does not cross-react with TrkB or TrkC. Reacts with human TrkA. While not tested yet, M-1723-100 is not expected to react with TrkA from other species due to amino acid sequence dissimilarity.
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. Final buffer contains no preservatives. After reconstitution divide into aliquots and store at -20°C for a higher stability. Antibody contains no preservatives. Store at 2-8°C with an appropriate antibacterial agent. Use sterile methods. Highest purity Glycerol (1:1) may be added for an additional stability when stored at refrigerated or freezing temperatures. Avoid repetitive freeze/thaw cycles.
UniProt ID	<u>P04629</u>

Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.

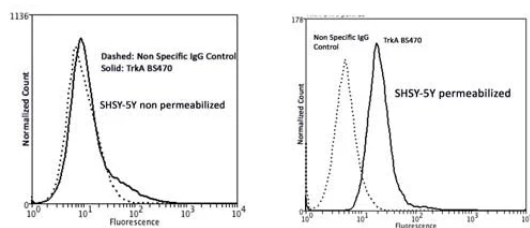
Product Images



TrkA expression on non-permeabilized human SHSY-5Y neuroblastoma and DU145 prostate cancer cell lines analysed by **Flow Cytometry**. Blocking: 200 µg/mL normal sheep IgG (30 minutes) on ice. Primary antibody: Mouse Monoclonal antibody to TrkA, extracellular domain (cat # M-1723-100, 2 µg per ~10⁶ cells) for 30 minutes on ice. Secondary antibody: Goat anti-mouse PE (1:100 dilution, 20 min in dark on ice. Non-specific Control IgG, clone X63 (cat# M-1249-100) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo Moxiflow™ instrument and protocols.



Immunofluorescence analysis of TrkA expression on human SHSY-5Y neuroblastoma cell membrane. Fixed (4% formaldehyde), non-permeabilized, and blocked (10% normal horse serum) SHSY-5Y cells were incubated with TrkA antibody M-1723-100 (extracellular domain, 2 µg/mL, green) for 1 hour. Primary antibody binding was visualized with a secondary donkey anti-mouse-CF488A antibody (4 µg/mL, 1 hour incubation). Cell nuclei were stained with Hoechst dye (blue). Magnification: 100x.



Comparison of TrkA expression on non-permeabilized and permeabilized human SHSY-5Y neuroblastoma cells by **Flow Cytometry**. This batch of SHSY-5Y cells did not show TrkA expression on the membrane (left image), but immunoreactivity in permeabilized cells (right image), suggesting that TrkA is stored intracellularly. Conditions: Permeabilization with absolute methanol (10 minutes on ice), or no permeabilization (incubation of primary antibody on ice only). Blocking: 200 µg/mL normal sheep IgG (30 minutes) on ice. Primary antibody: Mouse Monoclonal antibody to TrkA, extracellular domain (cat# M-1723-100, 2 µg per $\sim 10^6$ cells) for 30 minutes on ice. Secondary antibody: Goat anti-mouse PE (1:100 dilution, 20 min in dark on ice. Non-specific Control IgG, clone X63 (cat# M-1249-100) was used as negative control under same conditions (black dashed). Flow cytometry data and results were generated using Orflo MoxiflowTM instrument and protocols.

Product Page URL: www.antibodiesinc.com/products/anti-tyrosine-kinase-receptor-a-trka-antibody-m-1723-100



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