Human/Rat Phospho-TrkA (Y785) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG

Catalog Number: AF5479

DESCRIPTION

Species Reactivity	Human/Rat
Specificity	Detects rat TrkA when phosphorylated at Y785 in Western blots. Reactivity with human Phospho-TrkA is expected due to 100% homology with the immunogen.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human TrkA Y785 site
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

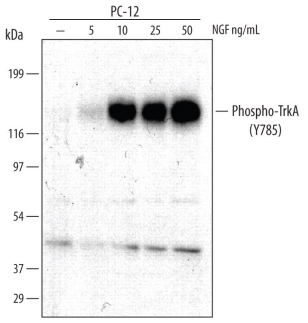
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Rat Phospho-TrkA (Y785) by Western Blot. Western blot shows lysates of PC-12 rat adrenal pheochromocytoma cell line untreated (-) or treated (+) with the indicated concentrations of Recombinant Rat β-NGF (Catalog # 556-NG) for 5 minutes. PVDF membrane was probed with 1 µg/mL of Human/Rat Phospho-TrkA (Y785) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF5479), followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-TrkA (Y785) at approximately 145 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

The receptor tyrosine kinase TrkA binds nerve growth factor (NGF) with low affinity, initiating a signaling cascade that mediates neuronal survival and differentiation. Higher affinity binding of NGF requires a complex formed between TrkA and the p75 NGF receptor. Ligand binding induces receptor dimerization and autophosphorylation on multiple tyrosine residues, including Y490, Y751 and Y785. Phosphorylation of TrkA at Y785 creates a binding site for phospholipase C-γ (PLC-γ), which catalyzes the cleavage of substrate PIP2 to generate the second messengers DAG and IP3.

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