Human/Mouse Phospho-Tie-2 (Y992) Antibody

Antigen Affinity-purified Polyclonal Rabbit IgG
Catalog Number: AF2720

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse Tie-2 when phosphorylated at Y992 in Western blots.
Source	Polyclonal Rabbit IgG
Purification	Antigen Affinity-purified
Immunogen	Phosphopeptide containing human Tie-2 Y992 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.

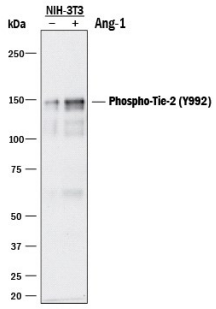
APPLICATIONS

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	0.5 µg/mL	See Below
Intracellular Staining by Flow Cytometry	0.25 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

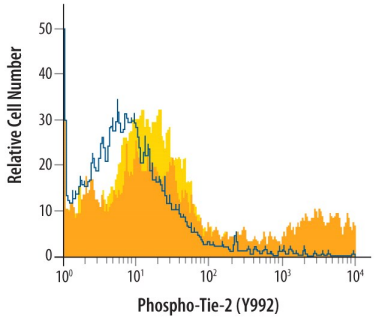
DATA

Western Blot



Detection of Mouse Phospho-Tie-2 (Y992) by Western Blot. Western blot shows lysates of NIH-3T3 mouse embryonic fibroblast cell line transfected with mouse Tie-2 and untreated (-) or treated (+) with 600 ng/mL Recombinant Human Angiopoietin-1 (Catalog # 923-AN) for 5 minutes. PVDF membrane was probed with 0.5 µg/mL of Rabbit Anti-Human/Mouse Phospho-Tie-2 (Y992) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2720) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-Tie-2 (Y992) at approximately 150 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Intracellular Staining by Flow Cytometry



Detection of Tie-2 in HUVEC Human Cells by Flow Cytometry. HUVEC human umbilical vein endothelial cells were unstimulated (light orange filled histogram) or treated with 100 µM pervanadate for 15 minutes (dark orange filled histogram), then stained with Human/Mouse Phospho-Tie-2 (Y992) Antigen Affinity-purified Polyclonal Antibody (Catalog # AF2720) or control antibody (Catalog # AB-105-C, open histogram), followed by Phycoerythrin-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # F0110). To facilitate intracellular staining, cells were fixed with paraformaldehyde and permeabilized with methanol.

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

Tie-2 (also known as TEK) is an angiogenic receptor tyrosine kinase required for the later stage of blood vessel maturation. Ligand binding induces receptor dimerization and autophosphorylation on multiple tyrosine residues. Y992 is located on the putative activation loop of Tie-2 and is a major autophosphorylation site.

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