Human/Mouse/Rat Netrin-1 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6419

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat Netrin-1 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Netrin-1 Val22-Ala604 Accession # O95631
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.

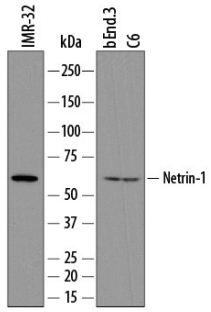
APPLICATIONS

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

DATA

Western Blot



Detection of Human, Mouse, and Rat Netrin-1 by Western Blot. Western blot shows lysates of IMR-32 human neuroblastoma cell line, bEnd.3 mouse endothelioma cell line, and C6 rat glioma cell line. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Human/Mouse/Rat Netrin-1 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6419) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Netrin-1 at approximately 66 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 8.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
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

Netrin-1 (from Sanskrit netr meaning "to guide"; also known as Epididymis tissue protein Li 131P) is a 66-76 kDa secreted member of the laminin superfamily of molecules. It is expressed by multiple cell types, including embryonic neural tube ventral midline cells plus postnatal renal tubule epithelium and oligodendroglia. Netrin-1 has multiple receptors, including β4-integrins, DCC, DSCAM and UNC5A-thru-D. Its effects are context specific. For example, on neurons, binding to either DCC or DSCAM alone promotes chemoattraction, while a DCC:UNC5 complex promotes chemorepulsion. In addition, the ligation of UNC5B on leukocytes suppresses cytokine production, while the binding of netrin to DCC expressed on select cell types inhibits apoptosis. Mature human netrin-1 is 580 amino acids (aa) in length (aa 25-604). It contains an N-terminal laminin domain (aa 47-284), three EGF-like domains (aa 285-453) and a C-terminal cell-interaction netrin-like domain (aa 472-601). Over aa 22-604, human netrin-1 shares 99% aa sequence identity with mouse netrin-1.

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