

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
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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