

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Neudessin in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Neudessin Gly32-Phe172 Accession # Q9UMX5
Conjugate	Alexa Fluor 532 Excitation Wavelength: 534 nm Emission Wavelength: 553 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.

Immunohistochemistry 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

Neudessin (Neuron-derived neurotrophic secreted protein; also CIR2 and SPUF) is a secreted, 20-21 kDa member of the MAPR (membrane-associated progesterone receptor) subfamily, cytochrome b5 family of molecules. It is expressed by CNS neuronal progenitors and neurons, plus preadipocytes in white adipose tissue. Regarding activity, it promotes neuronal differentiation with limited proliferation, and serves as a neuron survival factor. By contrast, it inhibits both astrocyte and adipocyte differentiation. Mature human neudessin is 141 amino acids (aa) in length (aa 32-172). It contains one cytochrome b5-like heme-binding domain (aa 44-129) and an acetylated lysine residue at Lys136. The heme-binding domain does bind heme, and this accounts for 5-6 kDa of its circulating molecular weight. The presence of a heme moiety is necessary for activity. Mature human neudessin shares 97% aa identity with mature mouse neudessin.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.