

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Neudesin in direct ELISAs.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Neudesin Gly32-Phe172 Accession # Q9UMX5
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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

Neudesin (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 neudesin 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 neudesin shares 97% aa identity with mature mouse neudesin.

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