

Human Neudesin Antibody

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF6714

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
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

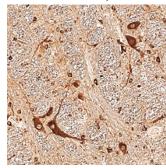
APPLICATIONS

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
Immunohistochemistry	5-15 μg/mL	See Below

DATA

Immunohistochemistry



Neudesin in Human Brain, Neudesin was detected in immersion fixed paraffinembedded sections of human brain (medulla) using Sheep Anti-Human Neudesin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6714) at 10 µg/mL overnight at 4 °C. Before incubation with the primary antibody, tissue was subjected to heatinduced epitope retrieval using Antigen Retrieval Reagent-Basic (Catalog # CTS013). Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to neuronal cell bodies and processes. View our protocol for Chromogenic IHC Staining of Paraffinembedded Tissue Sections.

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

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.

Rev. 2/6/2018 Page 1 of 1

