

Datasheet for ABIN7237724
anti-NEO1 antibody (Extracellular)



[Go to Product page](#)

Overview

Quantity:	25 µL
Target:	NEO1
Binding Specificity:	AA 701-715, Extracellular
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NEO1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Live Cell Imaging (LCI), Flow Cytometry (FACS)

Product Details

Purpose:	A Rabbit Polyclonal antibody to Neogenin (extracellular)
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)KIRYRKASRKSDVTE, corresponding to amino acid residues 701 - 715 of mouse Neogenin
Isotype:	IgG
Specificity:	Extracellular, N-term.
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Human, rat - identical
Characteristics:	Extracellular, N-terminus

Product Details

Purification: Affinity purified on immobilized antigen.

Target Details

Target: NEO1

Alternative Name: NEO1 ([NEO1 Products](#))

Background: Neogenin 1, NEO1, NGN, Neogenin also known as NEO1 is a member of the immunoglobulin (Ig) superfamily. It has been reported to be involved in diverse physiology and pathology functions, including cell proliferation, differentiation and migration¹. Neogenin was originally isolated from embryonic chicken cerebellum and reported to be homologous to the axon guidance receptor deleted in colorectal cancer (DCC)². Neogenin consists of 4 N-terminal Ig-like domains, followed by 6 fibronectin type III-like domains, a single transmembrane helix, and an intracellular domain. Neogenin is capable to mediate attractive and repulsive axon guidance depending on the ligand identity. Two main ligands of neogenin are Netrin-1 (NET1) and repulsive guidance molecules (RGMs)³. Interaction of Neogenin with RGMs leads to cytoskeleton rearrangements via Rho GTPases, this results in growth cone collapse. In contrast interaction with Netrin-1 triggers attractive growth cone response³. Recently it was shown that Neogenin plays a role in the maintenance of iron homeostasis via interaction with HJV (members of the RGM family)⁴.

Alternative names: Neogenin 1, NEO1, NGN

Gene ID: 18007

NCBI Accession: [NM_002499](#)

UniProt: [P97798](#)

Pathways: [Transition Metal Ion Homeostasis](#), [Regulation of Muscle Cell Differentiation](#), [Tube Formation](#)

Application Details

Application Notes: Antigen preadsorption control: 1 µg peptide per 1 µg antibody
Application Dilutions Immunohistochemistry paraffin embedded sections ihc: 1:300
Application Dilutions Western blot wb: 1:200

Comment: Negative Control: (ABIN7235994)
Blocking Peptide: (ABIN7235994)

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with double distilled water (DDW) to a concentration of 1.0 mg/mL.
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4
Storage:	4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).