

Mouse Anti-Neogenin 1/NEO1 [MD160]: MC0563

Intended Use: For Research Use Only

Description: Neogenin (NEO1) is a type I transmembrane protein that is crucial for axonal guidance and neuronal migration. It is also involved in regulating differentiation programs in many embryonic and adult tissues. It is a member of the immunoglobulin (Ig) superfamily and is closely related to deleted in colorectal cancer (DCC). NEO and DCC, together with the UNC5 family of type I transmembrane proteins, are receptors for the netrin/UNC6 family of laminin-related bifunctional guidance molecules that both attract some axons and repel others. In mouse, at least five netrins (netrin-1, -3, -4, G1, and G2) have been identified. Mouse netrin-1 and netrin-3 have been shown to be ligands for mouse NEO. Neogenin protein localizes to nuclear bodies and is thought to associate with chromatin and heterochromatin-associated factors. The protein is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains - a RING, a B-box type 1 and a B-box type 2 - and a coiled-coil region. Two alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Specifications:

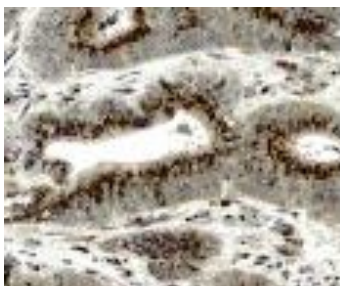
Clone: MD160
 Source: Mouse
 Isotype: IgG
 Reactivity: Human
 Immunogen: Human neogenin 1 protein
 Localization: Cytoplasm or membrane
 Formulation: Protein A purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 4°C
 Applications: IHC, ICC, IP, WB
 Package:

Description	Catalog No.	Size
Neogenin 1/NEO1 Concentrated	MC0563	1 ml

IHC Procedure*:

Positive Control Tissue: Colon, prostate, kidney
 Concentrated Dilution: 10-50
 Pretreatment: Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: Overnight @ 4°C
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human colorectal cancer stained with anti-Neogenin 1 using DAB

References:

1. Identification of NEO1 as a prognostic biomarker and its effects on the progression of colorectal cancer. Zhang M, et al. Cancer Cell Int 20:510, 2020.
2. Neogenin-1 Promotes Cell Proliferation, Motility, and Adhesion by Up-Regulation of Zinc Finger E-Box Binding Homeobox 1 Via Activating the Rac1/PI3K/AKT Pathway in Gastric Cancer Cells. Qu H, et al. Cell Physiol Biochem 48:1457-1467, 2018.

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