

Protocadherin Gamma C3 (PCDHGC3) Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56580 (clone S174B-27)

Format: 100ug (1mg/ml) Protein G-purified antibody in PBS, pH 7.4, 0.1% sodium azide, 50% glycerol.

BACKGROUND

The gene that encodes PCDHGC3 is a member of the protocadherin gamma gene cluster, one of three related clusters tandemly linked on chromosome five. These gene clusters have an immunoglobulin-like organization, suggesting that a novel mechanism may be involved in their regulation and expression. The tandem array of 22 large, variable region exons are followed by a constant region, containing 3 exons shared by all genes in the cluster. Each variable region exon encodes the extracellular region, which includes 6 cadherin ectodomains and a transmembrane region. The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain.

SPECIFICATION SUMMARY

Antigen: Fusion protein corresponding to aa 720-804 (variable cytoplasmic domain) of mouse PCDHGC3. This sequence is 97% identical in human and 97% identical in rat. No significant identity with other protocadherin-gamma proteins.

Accession nos: NP_291059.1, Q91XX1

Gene ID: 93706

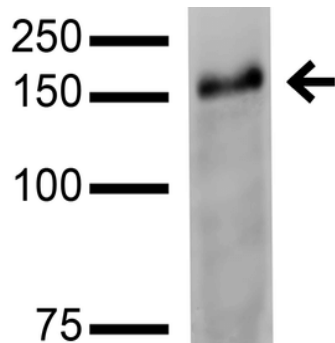
Host Species: Mouse

Antibody Class: IgG1

Specificity: This antibody recognizes human and mouse PCDHGC3.

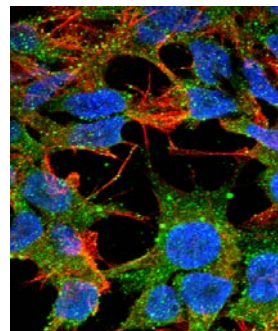
APPLICATIONS

Immunoblotting: use at 1-5ug/ml. A band of ~100kDa is detected.



Detection of PCDHGC3 in COS cells transfected with GFP-tagged PCDHGC3 with #56580 at 5ug/ml.

Immunofluorescence: use at 10ug/ml.



Detection of PCDHGC3 in neuroblastoma cell line SK-N-BE with #56580 at 10ug/ml: DAPI (blue) nuclear stain, Texas Red F actin stain, ATTO 488 (green) PCDHGC3 stain.

These are recommended concentrations. Endusers should determine optimal concentrations for their application.

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DILUTION INSTRUCTIONS

Dilute in PBS or medium that is identical to that used in the assay system.

STORAGE AND STABILITY

This product is stable for at least one (1) year at -20°C.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.