

Protocadherin Gamma (pan) Monoclonal Antibody

ORDERING INFORMATION

Catalog no.: 56562 (clone S159-5)

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

BACKGROUND

The protocadherin gamma gene cluster is one of three related clusters tandemly linked on chromosome five. The gamma gene cluster includes 22 genes divided into 3 subfamilies: subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and subfamily C contains 3 genes. 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 trans-membrane region). The constant region exons encode the common cytoplasmic region. These neural cadherin-like cell adhesion proteins are believed to 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 808-931 (C-terminal cytoplasmic constant domain) of mouse PCDHGA1. This sequence is present in all 22 PCDHG proteins.

Accession nos.: NP_291062.1, Q91XZ0

Gene ID: 93709

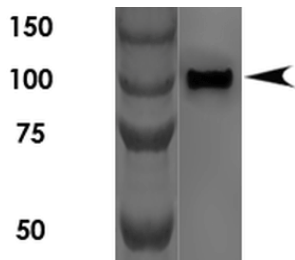
Host Species: Mouse

Antibody Class: IgG1

Specificity: This antibody recognizes human, mouse, and rat PCDHG-A, B, and C proteins

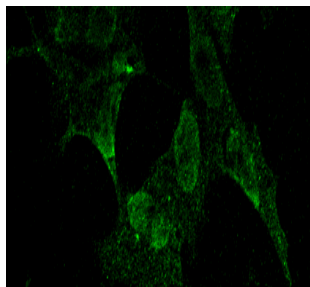
APPLICATIONS

Immunoblotting: use at 1-2ug/ml. A band of ~100kDa is detected.



Detection of PCDHG in rat brain lysate with #56562 at 1ug/ml.

Immunofluorescence: use at 10ug/ml.



Detection of PCDHG in neuroblastoma cell line SK-N-BE with #56562 at 10ug/ml.

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

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.