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- Gefahrgutzuschlag
- Expressversand

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Anti-Protocadherin Gamma (Pan) Antibody [S159-5]

Mouse Anti-Mouse Protocadherin Gamma (pan) Monoclonal
IgG1
Catalog No. SMC-454



Discovery through partnership | Excellence through quality

Overview

Product Name

Protocadherin Gamma (pan) Antibody

Description

Mouse Anti-Mouse Protocadherin Gamma (pan) Monoclonal IgG1

Species Reactivity

Mouse, Rat

Applications

WB, IHC

Antibody Dilution

WB (1:1000); optimal dilutions for assays should be determined by the user.

Host Species

Mouse

Immunogen Species

Mouse

Immunogen

Fusion protein corresponding to amino acids 808-931 (C-terminal cytoplasmic constant domain) of mouse Protocadherin-gamma-A1 that is shared by all 22 Gamma-protocadherins (A subfamily amino acids ~807-930, B subfamily amino acids ~789-912 and C subfamily amino acids ~818-941). 99% identity with human (123/124 amino acids).

Concentration

1 mg/ml

Conjugates

Alkaline Phosphatase, APC, ATTO 390, ATTO 488, ATTO 565, ATTO 594, ATTO 633, ATTO 655, ATTO 680, ATTO 700, Biotin, FITC, HRP, PE/ATTO 594, PerCP, RPE, Streptavidin, Unconjugated

Properties

Storage Buffer

PBS pH 7.4, 50% glycerol, 0.1% sodium azide

Storage Temperature

-20°C

Shipping Temperature

Blue Ice or 4°C

Purification

Protein G Purified

Clonality

Monoclonal

Clone Number

S159-5

Isotype

IgG1

Specificity

Detects ~100kDa. Cross-reacts with all Gamma-protocadherin-A, -B and -C proteins.

Cite This Product

Mouse Anti-Mouse Protocadherin Gamma Monoclonal, Clone S159-5 (StressMarq Biosciences Inc., Victoria BC CANADA, Catalog # SMC-454)

Certificate Of Analysis

1 µg/ml of SMC-454 was sufficient for detection of Protocadherin gamma (pan) in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Biological Description

Alternative Names

PCDH gamma A Antibody, PCDH-gamma-A Antibody, PCDHGA Antibody, Protocadherin gamma A Antibody, Protocadherin gamma subfamily A Antibody, Gamma Protocadherin A (pan) Antibody, Pan-Gamma-Protocadherin-A Antibody, Pan Gamma Protocadherin A Antibody

Research Areas

Cell Structure, Membrane Markers, Neuroscience

Cellular Localization

Cell membrane

Accession Number

NP_291062.1

Gene ID

93709

Swiss Prot

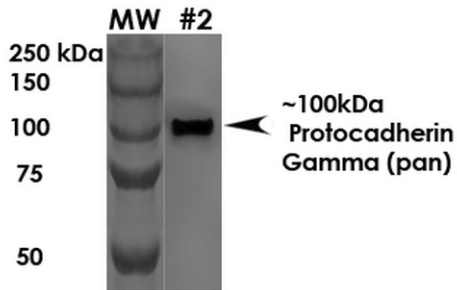
Q91XZ0

Scientific Background

The protocadherin gamma gene cluster is 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 gamma gene cluster includes 22 genes divided into 3 subfamilies. Subfamily A contains 12 genes, subfamily B contains 7 genes and 2 pseudogenes, and the more distantly related 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 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. Alternative splicing has been described for the gamma cluster genes.

Product Images



Western Blot analysis of Rat Brain Membrane showing detection of ~100 kDa Protocadherin Gamma protein using Mouse Anti-Protocadherin Gamma Monoclonal Antibody, Clone S159-5 (SMC-454). Load: 10 μ g. Primary Antibody: Mouse Anti-Protocadherin Gamma Monoclonal Antibody (SMC-454) at 1:1000 for 1 hour at RT. Secondary Antibody: Goat Anti-Mouse HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~100 kDa.

Product Citations (0)

Currently there are no citations for this product.

Reviews

There are no reviews yet.