

Protocadherin Gamma (pan) Antibody

Protocadherin Gamma Antibody, Clone S159-5 Catalog # ASM10288

Specification

Protocadherin Gamma (pan) Antibody - Product Information

Application WB
Primary Accession O91XZO
Other Accession NP_291062.1
Host Mouse
Isotype IgG1

Reactivity Human, Mouse, Rat

Clonality Monoclonal

Format APC

Description

Mouse Anti-Mouse Protocadherin Gamma (pan) Monoclonal IgG1

Target/Specificity

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

Other 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

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).

Purification

Protein G Purified

Storage -20°C

Storage Buffer

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

Shipping Temperature Blue Ice or 4°C

Certificate of Analysis

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

Cellular Localization

Cell Membrane

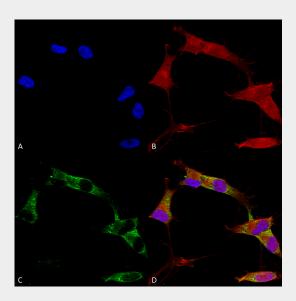
Protocadherin Gamma (pan) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

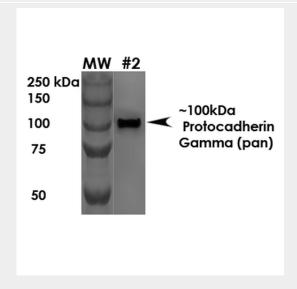


- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Protocadherin Gamma (pan) Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Protocadherin Gamma (pan) Monoclonal Antibody, Clone N159/5 (ASM10288). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-Protocadherin Gamma (pan) Monoclonal Antibody (ASM10288) at 1:100 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Protocadherin Gamma (pan) Antibody (D) Composite.



Western Blot analysis of Rat Brain Membrane showing detection of ~100 kDa Protocadherin





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Gamma protein using Mouse Anti-Protocadherin Gamma Monoclonal Antibody, Clone N159/5 (ASM10288). Load: 10 μg. Primary Antibody: Mouse Anti-Protocadherin Gamma Monoclonal Antibody (ASM10288) 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.

Protocadherin Gamma (pan) Antibody - 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.