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AM60060PU-N

U-N Monoclonal Antibody to PCDHG pan (808-931, Cytopl. Dom.) -Purified

Alternate names:	Gamma protocadherin, PCDH gamma, Protocadherin gamma	
Quantity:	0.1 mg	
Concentration:	1.0 mg/ml	
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.	
Uniprot ID:	<u>Q91XZ0</u>	
NCBI:	<u>NP_291062.1</u>	
GenelD:	<u>93709</u>	
Host / Isotype:	st / Isotype: Mouse / IgG1	
Recommended Isotype Controls:	SM20P (for use in rat samples), AM03095PU-N	
Clone:	S159-5	
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).	
Format:	State: Liquid purified IgG fraction Purification: Protein G Chromatography Buffer System: PBS pH 7.4, 50% Glycerol, 0.09% Sodium Azide	
Applications:	Western blot: 1/1000, 1 µg/ml was sufficient for detection of PCDHG (pan) in 20 µg of Rat brain lysate by colorimetric immunoblot analysis using HRP conjugated secondary antibody. Immunocytochemistry.	
	Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.	

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	AM60060PU-N: Monoclonal Antibody to PCDHG p Purified	oan (808-931, Cytopl. Dom.) -
Specificity:	This antibody detects a ~100 kDa protein. Cr A, -B and -C proteins. Species: Mouse and Rat. Other species not tested.	oss-reacts with all Gamma- protocadherin-
Storage:	Upon receipt, store undiluted (in aliquots) at Avoid repeated freezing and thawing. Shelf life: One year from despatch.	t -20°C.
Pictures:	Western blot of rat brain membrane lysates showing the detection of ~100 kDa. Protocadherin Gamma (pan) protein using Anti-Protocadherin Gamma (pan) Antibody [S159-5] (CatNo AM60060PU). Lane 1: MW ladder. Lane 2: Anti- Protocadherin Gamma (pan) (1:1000). Load: 10 µg RBM per lane. Block: 5% milk + TBST O/N at 4°C. Primary antibody: Mouse Anti- Protocadherin Gamma (pan) monoclonal antibody [S159-5] (CatNo AM60060PU) incubated for 60 min at RT. Secondary antibody: Goat Anti- Mouse HRP antibody at 1:200 for 60min at RT. Development: ECL solution for 6min at RT. Predicted/Observed size: ~ 100 kDa. Other band(s):~None.	MW #2 250 kDa 150 100 75 50 - 100kDa Protocadherin Gamma (pan)

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