#### Anti-Protocadherin Gamma (pan) ${f StressMarq}$ Catalog# **SMC-454D Biosciences Inc.** Orders • sales@stressmarq.com

Size: 100µg

PO Box 55036, Cadboro Bay 3825 Cadboro Bay Road, Victoria, BC, V8N 4G0, Canada

Web www.stressmarq.com This product is for in vitro research use only and is not intended for use in humans or animals

Product	Mouse anti- Protocadherin
	Gamma (pan) antibody;
	monoclonal
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 amino
	acids ~818-941). 99% identity
	with human (123/124 amino
	acids).
Host and Subclass	Mouse, IgG1
Cited Applications	WB, IHC
Cited Applications	WD, INC
Specificity	Detects a 100kDa protein.
	Cross-reacts with all Gamma-
	protocadherin-A, -B and -C
	proteins.
Species cross-	Mouse, Rat
reactivity	,
Format	Protein G purified. In PBS pH
	7.4, 0.1% NaN <sub>3</sub> and 50%
	glycerol.
Concentration and	1mg/ml; 1:1000 (WB)
Working Dilution	
Storage and	-20°C; 1 year+; shipped on
stability	cold packs or ambient
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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.

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Protoca	of SMC-454 was sufficient for detection of dherin gamma (pan) in 20 µg of rat brain lysate b etric immunoblot analysis using Goat anti-mous as the secondary antibody.
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Authorized: StressMarq Biosciences Inc. Creation Date: 11/1/2013

# Material Safety Data Sheet

## Anti-Protocadherin gamma (pan) (Monoclonal Antibody) SMC-454

This product is for *in vitro* research use only and is not intended for use in humans or animals

The below information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. StressMarq shall not be held liable for any damage resulting from handling or from contact with the above product. See the Technical Specification, Packing Slip, Invoice, and Product Catalogue for additional terms and conditions of sale.

#### **Hazardous Ingredients**

The physical, chemical and toxicological properties of these components have not been fully investigated. It is recommended that all laboratory personnel follow standard laboratory safety procedures when handling this product. Safety procedures should include wearing OSHA approved safety glasses, gloves and protective clothing. Direct physical contact with this product should be avoided.

Known Hazardous Components None CAS Number

Percent

**Physical Data** 

This product consists of whole rabbit serum shipped on gel packs. The physical properties of this product have not been investigated thoroughly.

#### Fire and Explosion Hazard and Reactivity Data

#### NOT APPLICABLE

### **Toxicological Properties**

May be harmful by inhalation, ingestion, or skin absorption. The toxicological properties of this product have not been investigated thoroughly. Exercise due caution.

#### **Preventative Measures**

Wear chemical safety goggles and compatible chemical-resistant gloves. Avoid inhalation, contact with eyes, skin or clothing.

#### **Spill and Leak Procedures**

Observe all federal, state and local environmental regulations.

- Wear protective equipment.
- Absorb on sand or vermiculite and place in closed containers for disposal.
- Dispose or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### **First Aid Measures**

- If swallowed, wash out mouth with water, provided person is conscious. Call a physician.
- In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If a rash or other irritation develops, call a physician.
- If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
- In case of eye contact, flush with copious amounts of water for at least 15 minutes while separating the eyelids with fingers. Call a physician.

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