Anti-SAP97

Catalog# SMC-170 C/D

Size: 25/100µg

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

Product	**Mouse anti-Sap97 antibody; monoclonal**
Clone	**S52A-42**
Immunogen	**N-terminal truncated recombinant rat SAP97-GST fushion protein**
Host and Subclass	**Mouse, IgG_1**
Cited Applications	**WB (2, 5-7). Other applications not yet tested.**
Specificity	**~97/140 kDa**
Species Cross-Reactivity	**Mouse, Rat. Other species not yet tested.**
Format	**Protein G Purified. In PBS pH 7.2, 0.09% sodium azide and 50% glycerol.**
Concentration and working dilution	**1mg/mL WB: 1:1000 (ECL)**
Storage and stability	**-20°C; 1 year+; shipped on cold packs**

Scientific Background

Synapse-associated protein (SAP) 97 is a 97 kDa membrane-associated synapse protein with extensive sequence homology to the PSD-95 family of proteins that facilitate ion channel clustering at the synaptic terminal (1). SAP97 consists of three 90-amino acid PDZ domains at its amino terminus, followed by a Src homology (SH) 3 domain, and a region with homology to guanylate kinases (GK). In addition to the CNS, SAP97 is also detected at the basal lateral membrane between a variety of epithelial cells (1). SAP97 is recruited to the sub - membranous cortical cytoskeleton at cell -cell contact sites as part of the E-cadherin complex (2). Co-expression of SAP97 and K+ channel results in the co-localization of these proteins in large round intracellular ag gregates (3). SAP97is a mammalian MAGUK-family member protein that is similar to the *Drosophila* tumor suppressor protein (DlgA), a PSD -95 related protein involved in maintaining integrity of epithelial and neuromuscular junctions (4, 8).

Selected References

1. Muller B.M., *et al*. (1995) *J Neurosci*. 15: 2354-2366.
2. Reuver S., and Garner, C. (1998) *J Cell Sci*. 111: 1071-1080.
3. Kim E., and Sheng, M. (1996) *Neuropharmacol*. 35: 993-1000.
4. Thomas U., *et al*. (1997) *Mech Dev.* 62: 161-174.
5. Suzuki T., *et al*. (2001) *Brain Res Mol Brain Res* . 89: 20-28.
6. Mehta S., *et al*. (2001) *J Biol Chem.* 276: 16092-16099.
7. Lee S., *et al*. (2002) *Mol Cell Biol.* 22: 1778-1791.
8. Tiffany A.M., *et al*. (2000) *J Cell Biol*. 148 (1): 147-158.

Certificate of Analysis

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Material Safety Data Sheet

SAP97 Monoclonal SMC-170

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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	CAS Number	Percent
Sodium Azide	26628-22-8	0.09

Physical Data

This product consists of mouse immunoglobulin in PBS containing 0.09% sodium azide in 50% glycerol, 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.

Authorized: StressMarq Biosciences Inc.
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