

Product datasheet for **TA326520**

Cacng2 Mouse Monoclonal Antibody [Clone ID: S245-36]

Product data:

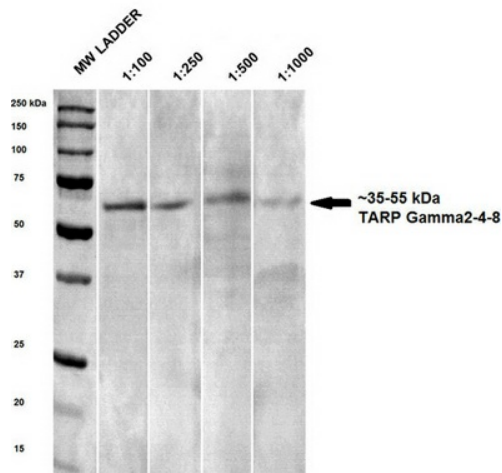
Product Type:	Primary Antibodies
Clone Name:	S245-36
Applications:	WB
Recommended Dilution:	WB: 1ug/ml
Reactivity:	Rat, Mouse
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Fusion protein amino acids 203-323 (Cytoplasmic Cterminus) of rat TARPGamma2
Formulation:	PBS pH7.4, 50% glycerol
Concentration:	lot specific
Purification:	Protein G Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	calcium voltage-gated channel auxiliary subunit gamma 2
Database Link:	NP_445803 Entrez Gene 12300 Mouse Entrez Gene 84347 Rat
Background:	Stargazin belongs to a group called voltage gated calcium channels (VGCCs) which are present in most excitable cells. Stargazin is thought to stabilize the calcium channel in an inactivated (closed) state. There are five high voltage activated calcium channel types (L, N, P, Q, and R) and one low voltage activated channel type (T). Each of these channels exists as a heteromultimer of $\alpha 1$, β , $\alpha 2/d$ and γ subunits with the voltage activated calcium channel function carried by the α subunits. VGCCs exert spatial and temporal control over cellular calcium concentrations and serve to modulate neurotransmitter release, hormone secretion, muscle contraction, electrical activity, cell metabolism and proliferation, gene expression, and neuronal survival.
Synonyms:	MGC138502; MGC138504; stargazin



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Note: Detects ~35-55kDa. Does not cross-react with TARP Gamma3.

Product images:



WB of rat brain lysate showing detection of ~35-55 kDa TARP Gamma2-4-8 (Stargazin) protein using Anti-Tarp Gamma2-4-8 antibody. Lane 1: MW ladder. Lane 2: Anti-TARP Gamma2-4-8 (1:100). Lane 3: Anti-TARP Gamma2-4-8 (1:250). Lane 4: Anti-TARP Gamma2-4-8 (1:500). Lane 5: Anti-TARP Gamma2-4-8 (1:1000). Load: 20 ug RB lysate per lane. Block: 5% milk + TBST 1hr at RT. Primary antibody: Mouse Anti-TARP Gamma2-4-8 monoclonal antibody incubated for 60 min at RT. Secondary antibody: Goat Anti-Mouse HRP antibody at 1:50 for 60 min at RT. Colour Development: TMB solution for 30 min at RT. Predicted/Observed size: ~ 55 kDa. Other band (s) (faint): ~37kDa, ~40kDa, ~75kDa.