

GABA-A Receptor Alpha 4 Antibody
GABA-A Receptor Alpha 4 Antibody, Clone S398A-34
Catalog # ASM10321

Specification

GABA-A Receptor Alpha 4 Antibody - Product Information

Application	WB
Primary Accession	P28471
Other Accession	NP_542154.3
Host	Mouse
Isotype	IgG1
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Format	ATTO 488

Description

Mouse Anti-Rat GABA-A Receptor Alpha4 Monoclonal IgG1

Target/Specificity

Detects ~60kDa. Does not cross-react with other GABA-A-Receptor Alpha subunits.

Other Names

GABA A receptor subunit alpha 4 Antibody, GABRA4 Antibody, Gamma aminobutyric acid A receptor Alpha 4 Antibody

Immunogen

Fusion protein amino acids 410-450 (Cytoplasmic C-terminus) of rat GABA-A-Receptor Alpha 4

Purification

Protein G Purified

Storage **-20°C**

Storage Buffer

PBS pH7.4, 50% glycerol, 0.1% sodium azide

Shipping Temperature

Blue Ice or 4°C

Certificate of Analysis

A 1:100 dilution of SMC-489 was sufficient for detection of GABA-A R, Alpha4 in 20 µg of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization

Cell Junction | Synapse | Postsynaptic Cell Membrane | Cell Membrane

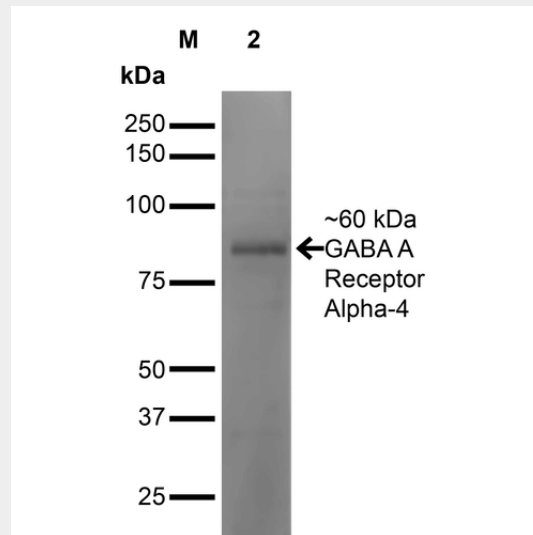
GABA-A Receptor Alpha 4 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GABA-A Receptor Alpha 4 Antibody - Images



Western Blot analysis of Mouse Brain showing detection of ~60 kDa GABA-A-Receptor-Alpha4 protein using Mouse Anti-GABA-A-Receptor-Alpha4 Monoclonal Antibody, Clone N398A/34 (ASM10321). Lane 1: MW Ladder. Lane 2: Mouse Brain. Load: 20 μ g. Block: 2% GE Healthcare Blocker for 1 hour at RT. Primary Antibody: Mouse Anti-GABA-A-Receptor-Alpha4 Monoclonal Antibody (ASM10321) at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~60 kDa.

GABA-A Receptor Alpha 4 Antibody - Background

The GABA-A receptor is a member of the superfamily of fast acting ligand-gated ion channels. The individual subunits of these receptors have similar sequences and structural features (1). GABA-A receptors are the major fast inhibitory neurotransmitter gated ion channels in the brain (2). GABA-A Receptor Alpha 4 is associated with epilepsy (3), and research suggests that alterations in GABA-A Receptors subtypes may be involved in the resistance to antiepileptic drugs (4).

GABA-A Receptor Alpha 4 Antibody - References

1. Bracamontes J.R. and Steinbach J.H. (2008) *J Bio Chem.* 283: 26128-26136.
2. Macdonald R.L., Olsen R.W. (1993) *Annu Rev Neurosci.* 17: 569-602.
3. Grabenstatter H.L., et al. (2014) *Epilepsia.* 55(11): 1826-1833.
4. Bethmann K., Fritschy J.M., Brandt C., Loscher W. (2008) *Neurbiol Dis.* 31(2): 169-187.