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GABA-A Receptor Alpha-1 Antibody
GABA A Receptor Alpha-1 Antibody, Clone S95-35
Catalog # ASM10222

Specification

GABA-A Receptor Alpha-1 Antibody - Product Information

Application	**WB, IHC, ICC, AM**
Primary Accession	P14867
Other Accession	NP_034380.1
Host	**Mouse**
Isotype	**IgG2A**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Human GABA-A Receptor Alpha-1 Monoclonal IgG2A

Target/Specificity
Detects ~55kDa. No cross-reactivity against GABA-A-R-Alpha 2 or –Alpha3.

Other Names
ECA4 antibody, EJM antibody, EJM5 antibody, Gaba receptor alpha 1 polypeptide antibody, GABA(A) receptor antibody, GABA(A) receptor subunit alpha 1 antibody, GABA(A) receptor subunit alpha-1 antibody, GABA(A) receptor, alpha 1 antibody, GABRA 1 antibody, GABRA1 antibody, Gamma aminobutyric acid (GABA) A receptor alpha 1 antibody, Gamma aminobutyric acid A receptor alpha 1 antibody, Gamma aminobutyric acid receptor subunit alpha 1 antibody, Gamma-aminobutyric acid receptor subunit alpha-1 antibody, GBRA1_HUMAN antibody

Immunogen
Fusion protein amino acids 355-394 of human GABA-A-R-Alpha1

Purification
Protein G Purified

Storage	**-20ºC**

Storage Buffer
PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
1 µg/ml of SMC-346 was sufficient for detection of alpha1 GABA receptor in 10 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Cell Membrane | Cell Junction | Synapse | Postsynaptic Cell Membrane

GABA-A Receptor Alpha-1 Antibody - Protocols

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

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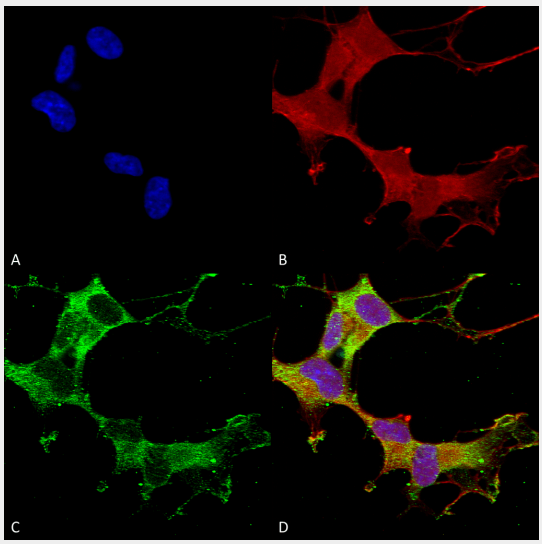
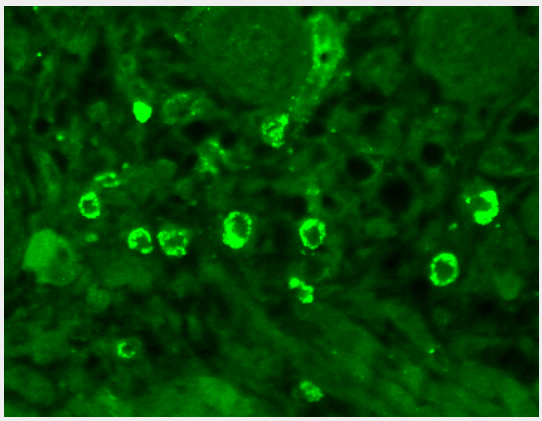
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GABA-A Receptor Alpha-1 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Alpha-1 Monoclonal Antibody, Clone N95/35 (ASM10222). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GABA-A Receptor Alpha-1 Monoclonal Antibody (ASM10222) at 1:50 for overnight at 4°C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) GABA-A Receptor Alpha-1 Antibody (D) Composite.



Immunohistochemistry analysis using Mouse Anti-GABA A Receptor Monoclonal Antibody, Clone N95/35 (ASM10222). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-GABA A Receptor Monoclonal Antibody (ASM10222) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Dermal Cells.

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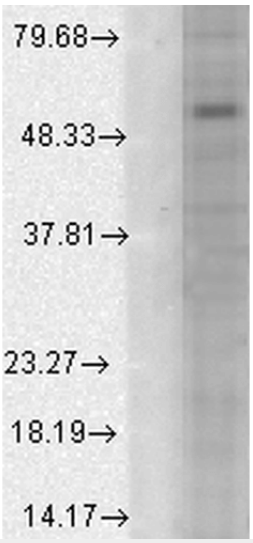

Western Blot analysis of Human Cell line lysates showing detection of GABA A Receptor protein using Mouse Anti-GABA A Receptor Monoclonal Antibody, Clone N95/35 (ASM10222). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-GABA A Receptor Monoclonal Antibody (ASM10222) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

GABA-A Receptor Alpha-1 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-1 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.