10320 Camino Santa Fe, Suite G
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GABA-A Receptor Delta Antibody
GABA A Receptor Delta Antibody, Clone S151-3
Catalog # ASM10221

Specification

GABA-A Receptor Delta Antibody - Product Information

Application	**WB**
Primary Accession	P18506
Other Accession	NP_058985.1
Host	**Mouse**
Isotype	**IgG2a**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**
Format	**ATTO 390**

Description
Mouse Anti-Rat GABA-A Receptor Delta Monoclonal IgG2a

Target/Specificity
Detects ~55kDa.

Other Names
GABAA-RD Antibody, Gabrd Antibody, MGC105467 Antibody

Immunogen
Synthetic peptide amino acids 15-34 of rat GABA-A-R-Delta

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
2 µg/ml of SMC-345 was sufficient for detection of Delta1 GABA-A 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 Delta Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot

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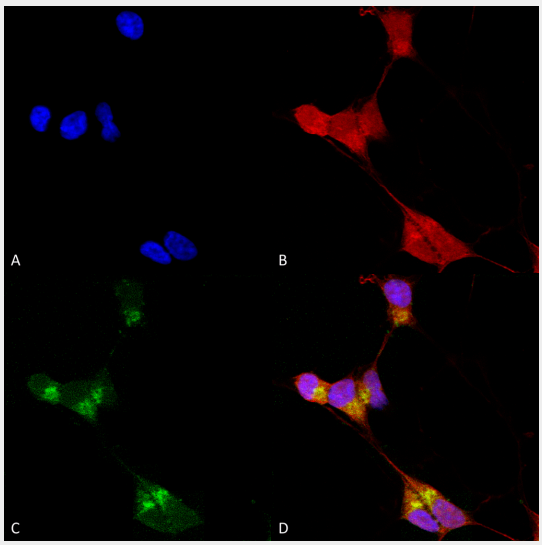
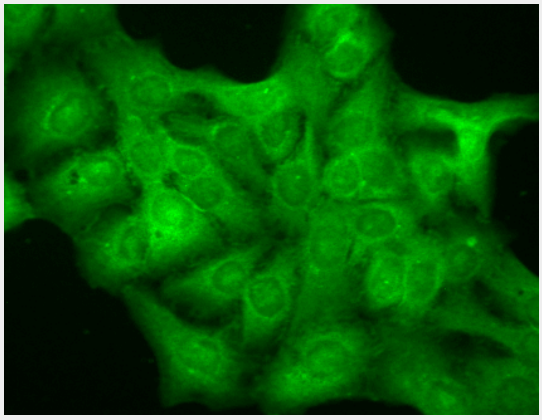
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

GABA-A Receptor Delta Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Delta Monoclonal Antibody, Clone N151/3 (ASM10221). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GABA-A Receptor Delta Monoclonal Antibody (ASM10221) at 1:100 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 Delta Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA A Receptor Monoclonal Antibody, Clone N151/3 (ASM10221). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-GABA A Receptor Monoclonal Antibody (ASM10221) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Diffuse cytoplasm and dull nuclei.

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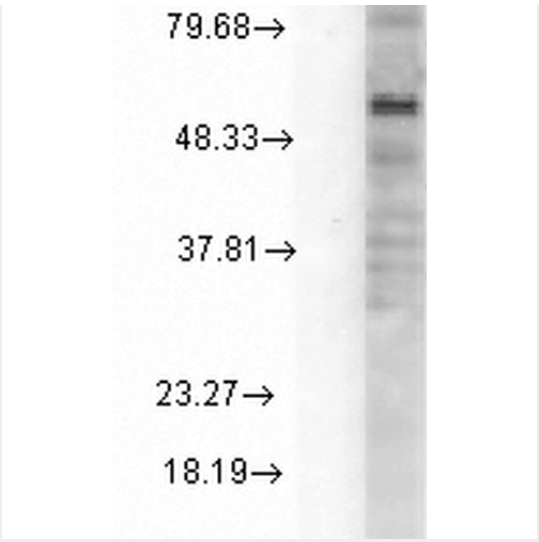

Western Blot analysis of Rat Cell line lysates showing detection of GABA A Receptor protein using Mouse Anti-GABA A Receptor Monoclonal Antibody, Clone N151/3 (ASM10221). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-GABA A Receptor Monoclonal Antibody (ASM10221) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

GABA-A Receptor Delta 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 Delta 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.