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GABA A Receptor Epsilon Antibody

GABA A Receptor Epsilon Antibody, Clone S413-67

Catalog # ASM10325

Specification

GABA A Receptor Epsilon Antibody - Product Information

Application	**ICC/IF, WB**
Primary Accession	P78334
Other Accession	NP_004952.2
Host	**Mouse**
Isotype	**IgG2A**
Reactivity	**Human, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Human GABA A Receptor Epsilon Monoclonal IgG2A

Target/Specificity
Detects ~60kDa.

Other Names
Gamma-aminobutyric acid receptor subunit epsilon Antibody, GABRE Antibody

Immunogen
Fusion protein amino acids 27-253 (Extracellular N-terminus) of human GABA A Receptor Epsilon

Purification
Protein G Purified

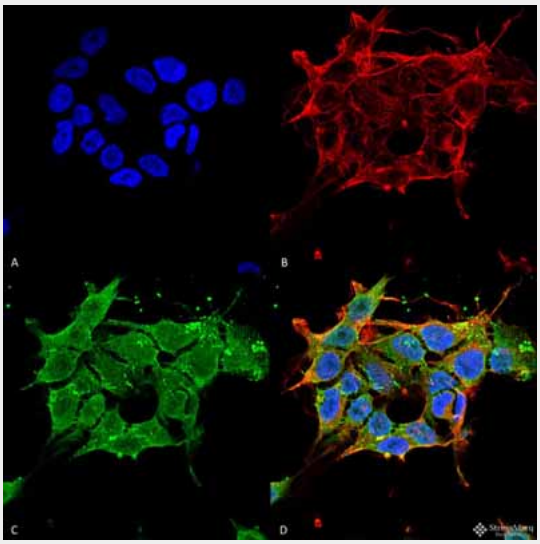
Storage	**-20ºC**

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

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
A 1:100 dilution of SMC-493 was sufficient for detection of GABA-A R, Epsilon 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



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Epsilon Monoclonal Antibody, Clone S413-67 (ASM10325). Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GABA-A Receptor Epsilon Monoclonal Antibody (ASM10325) at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60min RT, 5min RT. Localization: Cell Junction, Synapse, Postsynaptic Cell Membrane, Cell Membrane. Magnification: 60X. (A) DAPI (blue) nuclear stain (B) Phalloidin Texas Red F-Actin stain (C) GABA-A Receptor Epsilon Antibody (D) Composite.

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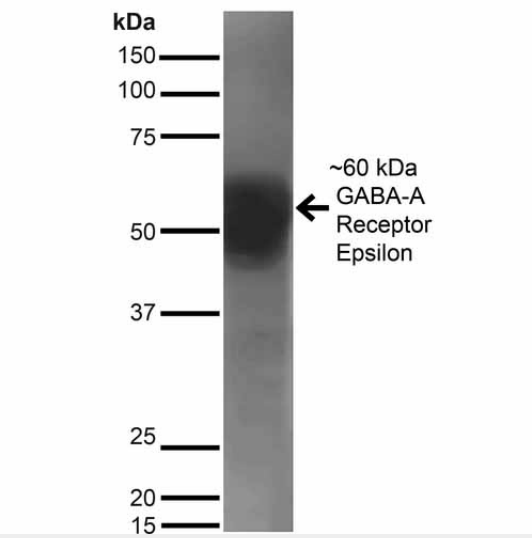
GABA A Receptor Epsilon Antibody - Protocols

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

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



Western Blot analysis of Rat Brain showing detection of ~60 kDa GABA A Receptor Epsilon protein using Mouse Anti-GABA A Receptor Epsilon Monoclonal Antibody, Clone S413-67 (ASM10325). Lane 1: MW Ladder. Lane 2: Rat Brain. Load: 10 µg. Block: 2% GE Healthcare Blocker for 1 hour at RT. Primary Antibody: Mouse Anti-GABA A Receptor Epsilon Monoclonal Antibody (ASM10325) at 1:1000 for 1 hour at RT. 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 Epsilon 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). Brainstem expression of GABA-A Receptor, Epsilon, is upregulated during pregnancy (3).

GABA A Receptor Epsilon 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. Hengen K.B., et al. (2012) PLoS One. 7(1): e30608.