

Product Datasheet

GABA-AR alpha 5 Antibody (S415-24) - BSA Free NBP2-59700

Unit Size: 100 ug

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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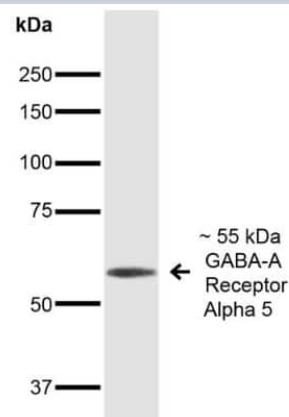
NBP2-59700

GABA-AR alpha 5 Antibody (S415-24) - BSA Free

| Product Information | |
|------------------------------------|---|
| Unit Size | 100 ug |
| Concentration | 1 mg/ml |
| Storage | Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles. |
| Clonality | Monoclonal |
| Clone | S415-24 |
| Preservative | 0.1% Sodium Azide |
| Isotype | IgG1 |
| Purity | Protein G purified |
| Buffer | PBS (pH 7.4), 50% Glycerol |
| Target Molecular Weight | 55 kDa |
| Product Description | |
| Host | Mouse |
| Gene ID | 2558 |
| Gene Symbol | GABRA5 |
| Species | Human, Mouse, Rat |
| Specificity/Sensitivity | Detects ~55kDa. Does not cross-react with GABA A Receptor Alpha2 or other GABA-A Receptors based on KO validation data. |
| Immunogen | Fusion protein amino acids 368-419 (last cytoplasmic domain before extracellular C-terminus) of human GABA A Receptor Alpha5. |
| Product Application Details | |
| Applications | Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry |
| Recommended Dilutions | Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence |
| Application Notes | A 1:100 dilution of this antibody was sufficient for detection of GABA-A R, Alpha5 in 20 ug of mouse brain lysate by ECL immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody. |

Images

Western Blot: GABA-AR alpha 5 Antibody (S415-24) [NBP2-59700] - Analysis of Mouse Brain showing detection of ~55 kDa GABA A Receptor Alpha 5 protein using Mouse Anti-GABA A Receptor Alpha 5 Monoclonal Antibody, Clone S415-24 . Lane 1: MW Ladder. Lane 2: Mouse Brain. Load: 20 ug. Primary Antibody: Mouse Anti-GABA A Receptor Alpha 5 Monoclonal Antibody at 1:1000 for 16 hours at 4C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:200 for 1 hour at RT. Predicted/Observed Size: ~55 kDa.



Immunocytochemistry/Immunofluorescence: GABA-AR alpha 5 Antibody (S415-24) [NBP2-59700] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-AR alpha 5 Alpha 5 Monoclonal Antibody, Clone S415-24 (NBP2-59700). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GABA-AR alpha 5 Alpha 5 Monoclonal Antibody (NBP2-59700) at 1:50 for overnight at 4C 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-AR alpha 5 Alpha 5 Antibody (D) Composite.



Immunocytochemistry/Immunofluorescence: GABA-AR alpha 5 Antibody (S415-24) [NBP2-59700] - Analysis using Mouse Anti-GABA-A Receptor Alpha5 Monoclonal Antibody, Clone S415-24 . Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-GABA-A Receptor Alpha5 Monoclonal Antibody 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 Alpha5 Antibody (D) Composite.



Publications

Cai X, Qiu L, Wang C et al. Hippocampal Inhibitory Synapses Deficits Induced by alpha 5-containing GABAA Receptors Mediates Chronic Neuropathic Pain-related Cognitive Impairment Mol Neurobiol 2022-07-18 [PMID: 35849280]



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Products Related to NBP2-59700

| | |
|------------------|---|
| HAF007 | Goat anti-Mouse IgG Secondary Antibody [HRP] |
| NB720-B | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-97005-0.5mg | Mouse IgG1 Isotype Control (MG1) |
| NBP2-57683PEP | GABA-AR alpha 5 Recombinant Protein Antigen |

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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