

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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Publications: 1

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NBP2-59700

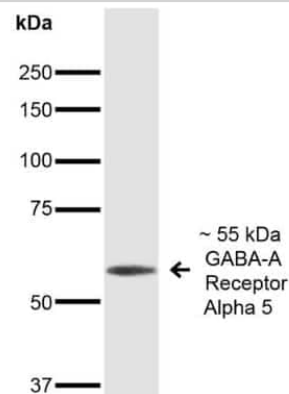
GABA-AR alpha 5 Antibody (S415-24) - BSA Free

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	
Description	Novus Biologicals Mouse GABA-AR alpha 5 Antibody (S415-24) - BSA Free (NBP2-59700) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-GABA-AR alpha 5 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
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.

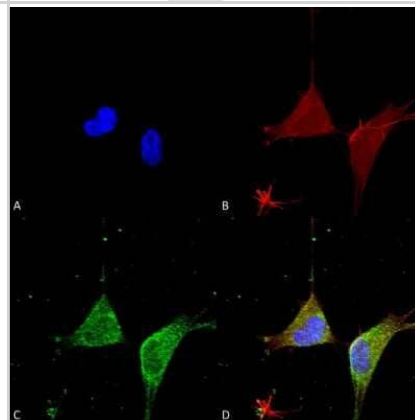


Images

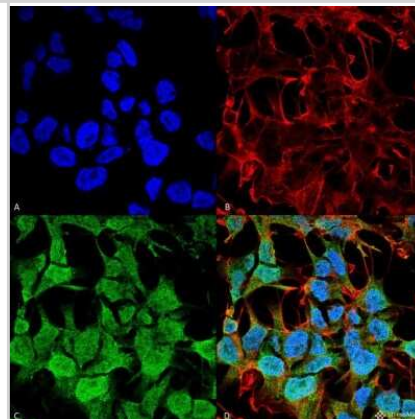
Western Blot: GABA-AR alpha 5 Antibody (S415-24) [NBP2-59700] - Analysis of Mouse Brain showing detection of ~55 kDa GABA A Receptor Alpha 5 protein using Mouse Anti-GABA A Receptor Alpha 5 Monoclonal Antibody, Clone S415-24 . Lane 1: MW Ladder. Lane 2: Mouse Brain. Load: 20 ug. Primary Antibody: Mouse 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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