

# 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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[technical@novusbio.com](mailto:technical@novusbio.com)

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**NBP2-59700**

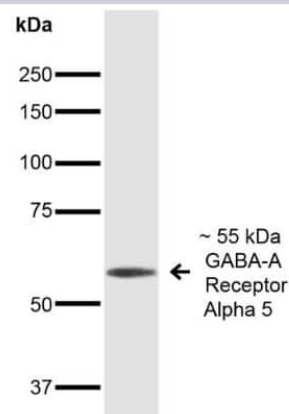
GABA-AR alpha 5 Antibody (S415-24) - BSA Free

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

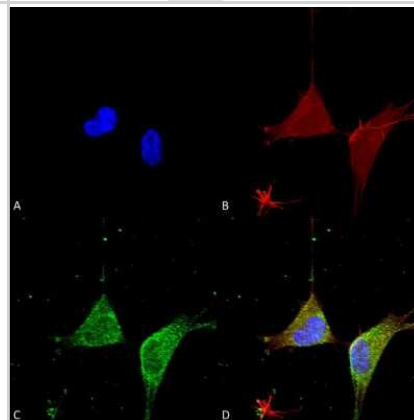


## Images

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]



### **Novus Biologicals USA**

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

### **Bio-Techne Canada**

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

### **Bio-Techne Ltd**

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

### **General Contact Information**

www.novusbio.com  
Technical Support: nb-technical@bio-techne.com  
Orders: nb-customerservice@bio-techne.com  
General: novus@novusbio.com

### **Products Related to NBP2-59700**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-97005-0.5mg	Mouse IgG1 Isotype Control (MG1)

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### **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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