

# Product Datasheet

## GABA-A R beta 3 Antibody (N87/25) - BSA Free NBP1-47613

Unit Size: 0.1 mg

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

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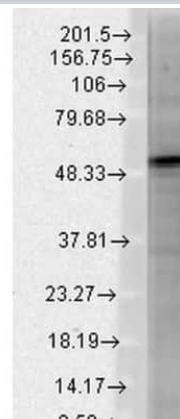


**NBP1-47613****GABA-A R beta 3 Antibody (N87/25) - BSA Free**

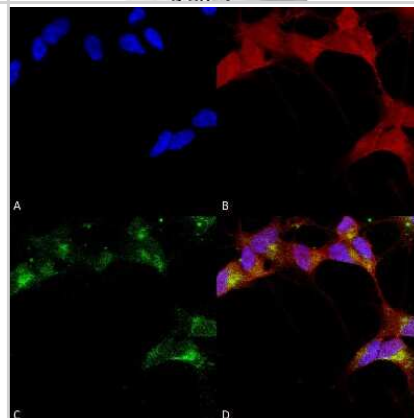
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	N87/25
<b>Preservative</b>	0.09% Sodium Azide
<b>Isotype</b>	IgG1
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS (pH 7.4), 50% Glycerol
<b>Target Molecular Weight</b>	54 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse GABA-A R beta 3 Antibody (N87/25) - BSA Free (NBP1-47613) is a monoclonal antibody validated for use in IHC, WB and ICC/IF. Anti-GABA-A R beta 3 Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	2562
<b>Gene Symbol</b>	GABRB3
<b>Species</b>	Human, Mouse, Rat
<b>Specificity/Sensitivity</b>	Detects approx 55kDa. No cross-reactivity against GABA-A-R-Beta 2 or -Beta1.
<b>Immunogen</b>	Fusion protein amino acids 370-433 of mouse GABA-A-R-Beta 3
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Microarray
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry 1:1000, Immunocytochemistry/Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:1000, Microarray
<b>Application Notes</b>	1 ug/ml of GABA-A Receptor Beta3 Antibody was sufficient for detection of Beta3 GABA receptor in 10 ug of rat brain lysate by colorimetric immunoblot analysis using goat anti-mouse IgG:HRP as the secondary Antibody.

## Images

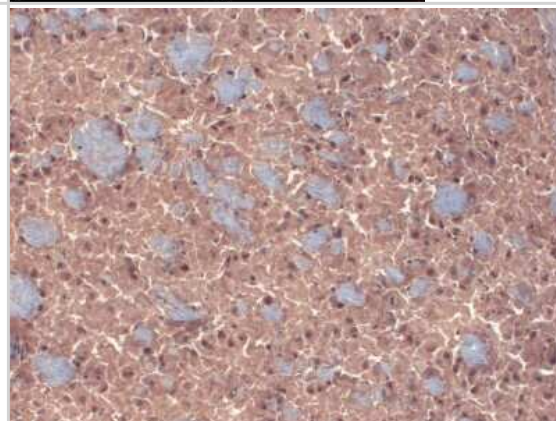
Western Blot: GABA-A R beta 3 Antibody (N87/25) [NBP1-47613] - Western Blot analysis of Rat brain membrane lysate showing detection of GABA-A R beta 3 protein using Mouse Anti-GABA-A R beta 3 Monoclonal Antibody, Clone N87/25 (NBP1-47613). Load: 15 ug. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-GABA-A R beta 3 Monoclonal Antibody (NBP1-47613) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunocytochemistry/Immunofluorescence: GABA-A R beta 3 Antibody (N87/25) [NBP1-47613] - Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-GABA-A Receptor Beta 3 Monoclonal Antibody, Clone N87/25 (NBP1-47613). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-GABA-A Receptor Beta 3 Monoclonal Antibody (NBP1-47613) at 1:100 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-A Receptor Beta 3 Antibody (D) Composite.



Immunohistochemistry: GABA-A R beta 3 Antibody (N87/25) [NBP1-47613] - Immunohistochemistry analysis using Mouse Anti-GABA-A R beta 3 Monoclonal Antibody, Clone N87/25 (NBP1-47613). Tissue: Brain. Species: mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-GABA-A R beta 3 Monoclonal Antibody (NBP1-47613) at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 I for 5 minutes at RT.



## Publications

Kwakowsky A, Calvo-Flores Guzman B, et al. GABAA receptor subunit expression changes in the human Alzheimer's disease hippocampus, subiculum, entorhinal cortex and superior temporal gyrus. *J Neurochem* 2018-06-01 [PMID: 29485232] (WB, IHC-Fr, Human)

Palpagama TH, Sagniez M, Kim S et al. GABAA receptors are well preserved in the hippocampus of aged mice *eNeuro* 2019-07-24 [PMID: 31340951] (WB, IF/IHC, Mouse)

Pandya M, Palpagama TH, Turner C et al. Sex- and age-related changes in GABA signaling components in the human cortex. *Biol Sex Differ* 2019-01-14 [PMID: 30642393] (WB, Human)

Schwirtlich M, Kwakowsky A, Emri Z et al. GABAergic signaling in primary lens epithelial and lentoid cells and its involvement in intracellular Ca(2+) modulation. *Cell Calcium*. 2011-08-03 [PMID: 21820173]



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### **Products Related to NBP1-47613**

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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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