

Anti-GABA B Receptor 2/GABBR2 antibody [EP2411Y] ab75838

重组 RabMAb

★★★★★ **4 Abreviews** **17 References** **6 图像**

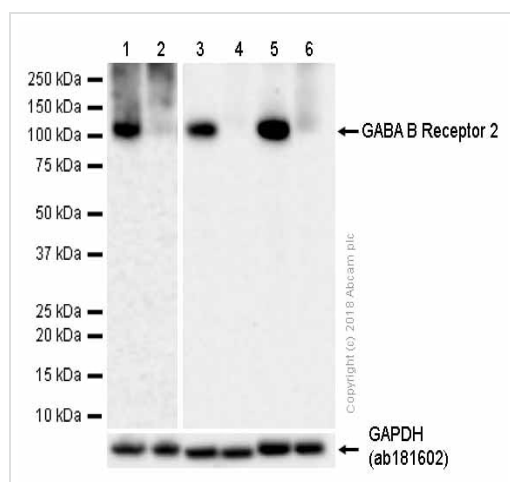
概述

产品名称	Anti-GABA B Receptor 2/GABBR2抗体[EP2411Y]
描述	兔单克隆抗体[EP2411Y] to GABA B Receptor 2/GABBR2
宿主	Rabbit
经测试应用	适用于: IHC-P, WB, Flow Cyt (Intra) 不适用于: ICC/IF or IP
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Unboiled human hippocampus, rat brain, and mouse brain tissue lysates. Human cerebellum lysate; IHC-P: Human brain tissue, Rat Postnatal (P15) Cerebellum; Flow Cyt (intra): SH-SY5Y (human neuroblastoma cell line from bone marrow).
常规说明	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EP2411Y

同种型	IgG	
应用		
<div>The Abpromise guarantee</div> <div>Abpromise™承诺保证使用ab75838于以下的经测试应用</div> <div>“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。</div>		
应用	Ab评论	说明
IHC-P	★★★★★ (2)	1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★★★★★ (1)	1/500 - 1/1000. Predicted molecular weight: 106 kDa. We recommend not to boil the samples after lysis to get desired WB results.
Flow Cyt (Intra)		1/40. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
应用说明	Is unsuitable for ICC/IF or IP.	
靶标		
功能	Receptor for GABA. The activity of this receptor is mediated by G-proteins that inhibit adenylyl cyclase activity, stimulates phospholipase A2, activates potassium channels, inactivates voltage-dependent calcium-channels and modulates inositol phospholipids hydrolysis. Plays a critical role in the fine-tuning of inhibitory synaptic transmission. Pre-synaptic GABA-B-R inhibit neurotransmitter release by down-regulating high-voltage activated calcium channels, whereas postsynaptic GABA-B-R decrease neuronal excitability by activating a prominent inwardly rectifying potassium (Kir) conductance that underlies the late inhibitory postsynaptic potentials. Not only implicated in synaptic inhibition but also in hippocampal long-term potentiation, slow wave sleep, muscle relaxation and antinociception.	
组织特异性	Highly expressed in brain, especially in cerebral cortex, thalamus, hippocampus, frontal, occipital and temporal lobe, occipital pole and cerebellum, followed by corpus callosum, caudate nucleus, spinal cord, amygdala and medulla. Weakly expressed in heart, testis and skeletal muscle.	
序列相似性	Belongs to the G-protein coupled receptor 3 family. GABA-B receptor subfamily.	
结构域	Alpha-helical parts of the C-terminal intracellular region mediate heterodimeric interaction with GABA-B receptor 1.	
细胞定位	Cell membrane. Cell junction > synapse > postsynaptic cell membrane. Moreover coexpression of GABA-B-R1 and GABA-B-R2 appears to be a prerequisite for maturation and transport of GABA-B-R1 to the plasma membrane.	
图片		



Western blot - Anti-GABA B Receptor 2/GABBR2 antibody [EP2411Y] (ab75838)

All lanes : Anti-GABA B Receptor 2/GABBR2 antibody [EP2411Y] (ab75838) at 1/1000 dilution

Lane 1 : Human hippocampus lysates unboiled

Lane 2 : Human hippocampus lysates boiled

Lane 3 : Mouse brain lysates unboiled

Lane 4 : Mouse brain lysates boiled

Lane 5 : Rat brain lysates unboiled

Lane 6 : Rat brain lysates boiled

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 106 kDa

Observed band size: 106 kDa

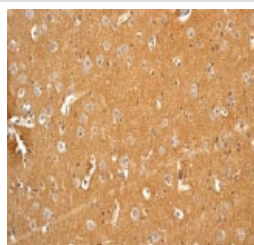
Blocking/Diluting buffer and concentration: 5% NFDM/TBST.

Exposure time:

Lane 1 and 2: 140 seconds

Lane 3 to 6: 180 seconds

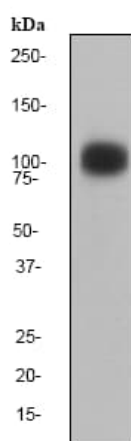
We recommend not to boil the samples after lysis to get desired WB results.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA B Receptor 2/GABBR2 antibody [EP2411Y] (ab75838)

ab75838, at a 1/100 dilution, staining GABA B Receptor 2/GABBR2 in paraffin embedded human brain tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-GABA B Receptor 2/GABBR2 antibody [EP2411Y] (ab75838)

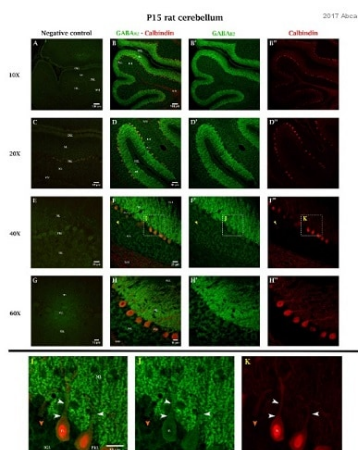
Anti-GABA B Receptor 2/GABBR2 antibody [EP2411Y] (ab75838)
at 1/500 dilution + human cerebellum lysate at 10 µg

Secondary

goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 106 kDa

Observed band size: 106 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GABA B Receptor 2/GABBR2 antibody [EP2411Y] (ab75838)

This image is courtesy of an Abreview submitted by Estella Munoz

Ab75838 staining GABA B Receptor 2/GABBR2 in Rat Postnatal (P15) Cerebellum by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraformaldehyde and blocked with 10% serum for 1 hour at 25°C; antigen retrieval was by heat mediation in a 10mM citrate buffer, pH6. Samples were incubated with primary antibody (1/400 in PBS with 2% donkey serum) for 16 hours at 25°C. An Alexa Fluor® 488 conjugated Donkey anti-rabbit, polyclonal was used as the secondary antibody.

IHC and confocal microscopy for GABA B Receptor 2/GABBR2 (GABAB2) in the postnatal rat cerebellum. (A, C, E, G) Negative control by omission of the primary antibody at 10, 20, 40 and 60X. (B-B'', D-D'', F-F'', H-H'') Immunolabeling for GABAB2 (green) and/or the calcium-binding protein calbindin (red) at 10, 20, 40 and 60X. (I-K) Zooms of the insets shown in F-F''. Specific signal for GABAB2 is mainly observed in the molecular layer (ML) and internal granular layer (IGL) of the cerebellar grey matter. Purkinje cells (PKL) are enriched in GABAB2 especially at the surface of the dendritic trees (white arrowheads) oriented towards the ML. Golgi II cells (yellow arrowhead) located in the IGL are also positive for GABAB2. EGL: external granular layer. n: calbindin-positive nucleus of a Purkinje cell. Orange arrowhead: GABAB2-immunoreactive granular cell in the IGL. WM: white matter. An Olympus FV 1000 confocal microscope was used and images were processed with Adobe Photoshop CS4. Figure generated by Juan Vilchez Aruani and Estela Muñoz, IHEM, UNCuyo, CONICET, Mendoza, Argentina.

Flow Cytometry (Intracellular) - Anti-GABA B
Receptor 2/GABBR2 antibody [EP2411Y] (ab75838)

Overlay histogram showing SH-SY5Y cells stained with ab75838 (red line). The cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab75838, 1/50 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monoclonal) (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in SH-SY5Y cells fixed with 80% methanol (5 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

Why choose a
recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-GABA B Receptor 2/GABBR2 antibody
[EP2411Y] (ab75838)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.cn/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors