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anti-GABRA4 antibody (Extracellular, N-Term)

3 Images



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Quantity:	50 μL	
Target:	GABRA4	
Binding Specificity:	AA 37-50, Extracellular, N-Term	
Reactivity:	Human, Rat, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC), Live Cell Imaging (LCI)	
Product Details		
Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: NSKDEKLSPENFTR(C), corresponding to amino acid residues 37-50 of rat GABRA4 with replacement of C44 with serine	
Isotype:	IgG	
Characteristics:	Anti-GABA(A) alpha4 Receptor (extracellular) Antibody is directed against an extracellular epitope of rat GABA(A) a4 subunit. Anti-GABA(A) a4 Receptor (extracellular) Antibody (ABIN7043188, ABIN7044305 and ABIN7044306)) can be used in western blot, immunohistochemistry and live cell imaging applications. It was designed to recognize GABRA4 from human, rat and mouse samples.	
Purification:	Affinity purified on immobilized antigen.	

Target Details

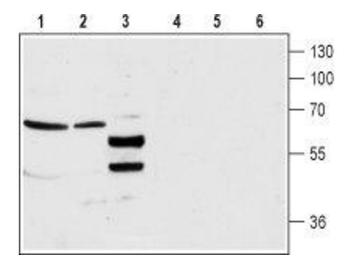
Target:	GABRA4	
Alternative Name:	GABA(A) alpha4 Receptor (GABRA4 Products)	
Background:	Alternative names: GABA(A) α4 Receptor, gamma-Aminobutyric acid receptor subunit alpha4, GABRA4	
Gene ID:	140675	
NCBI Accession:	NM_000809	
UniProt:	P28471	
Pathways:	Synaptic Membrane	

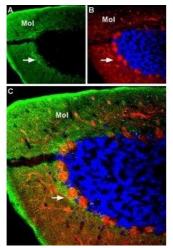
Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	$25~\mu\text{L}$, $50~\mu\text{L}$ or $0.2~m\text{L}$ double distilled water (DDW), depending on the sample size.
Concentration:	0.8 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	RT,4 °C,-20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).





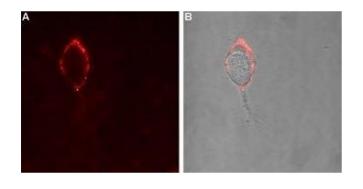
Western Blotting

Image 1. Western blot analysis of rat brain lysate (lanes 1 and 4), mouse brain membrane (lanes 2 and 5) and human CCF-STGI Brain astrocytoma cell line lysate (lanes 3 and 6):

- 1-3. Anti-GABA(A) α4 Receptor (extracellular) Antibody (ABIN7043188, ABIN7044305 and ABIN7044306), (1:200).4-6. Anti-GABA(A) α4 Receptor (extracellular) Antibody, preincubated with GABA(A) α4 Receptor (extracellular) Blocking Peptide (#BLP-GA008).

Immunohistochemistry

Image 2. Expression of GABA(A) α4 Receptor in rat cerebellum - Immunohistochemical staining of rat cerebellum using Anti-GABA(A) α4 Receptor (extracellular) Antibody (ABIN7043188, ABIN7044305 and ABIN7044306). A. GABRA4 staining (green) appears in the molecular layer (Mol) and around the soma of Purkinje cells (arrow). B. Parvalbumin (red), a marker of Purkinje and interneuronal cells, is stained in the same section. C. Merge of the images demonstrates expression of GABRA4 around the soma of Purkinje cells. DAPI is used as the counterstain (blue).



Immunocytochemistry

Image 3. Expression of GABA(A) α4 Receptor in rat PC12 cells - Cell surface detection of GABA(A) α4 Receptor in intact living rat pheochromocytoma PC12 cells. A. Extracellular staining of cells using Anti-GABA(A) α4 Receptor (extracellular) Antibody (ABIN7043188, ABIN7044305 and ABIN7044306), (1:50), (red). B. Merge of A with the live view of the cell.