

For Research Use Only

# GABRA2 Recombinant antibody

Catalog Number: 83057-2-RR



## Basic Information

<b>Catalog Number:</b> 83057-2-RR	<b>GenBank Accession Number:</b> NM_000807	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 2555	<b>CloneNo.:</b> 230158E6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P47869	<b>Recommended Dilutions:</b> WB 1:2000-1:10000
<b>Isotype:</b> IgG	<b>Full Name:</b> gamma-aminobutyric acid (GABA) A receptor, alpha 2	
<b>Immunogen Catalog Number:</b> AG29301	<b>Calculated MW:</b> 51 kDa	
	<b>Observed MW:</b> 50-51 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : mouse cerebellum tissue, mouse brain tissue, rat brain tissue
<b>Species Specificity:</b> mouse, rat	

## Background Information

GABRA2 (gamma-aminobutyric acid type A receptor subunit alpha2), also known as DEE78. It is expected to be located in cell membrane, and the protein is highly expressed in brain. The protein is a ligand-gated chloride channel, which is a component of the heteropentameric receptor for GABA, the major inhibitory neurotransmitter in the brain (PubMed:29961870). It also plays an important role in the formation of functional inhibitory GABAergic synapses in addition to mediating synaptic inhibition as a GABA-gated ion channel (PubMed:29961870). The calculated molecular weight of GABRA2 is 51 kDa.

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

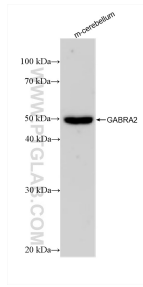
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

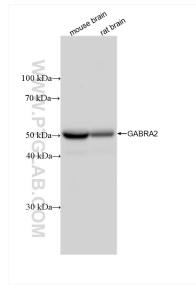
W: [ptgcn.com](http://ptgcn.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

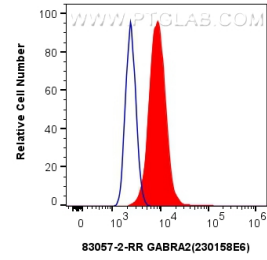
## Selected Validation Data



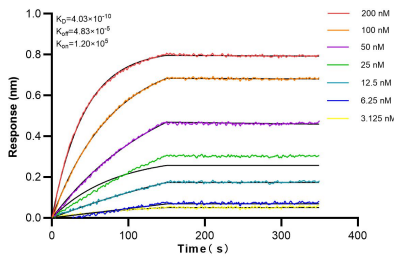
mouse cerebellum tissue were subjected to SDS PAGE followed by western blot with 83057-2-RR (GABRA2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 83057-2-RR (GABRA2 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug GABRA2 Recombinant antibody (83057-2-RR, Clone:230158E6) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83057-2-RR against Human GABRA2 were performed. The affinity constant is 0.403 nM.