

For Research Use Only

GABRA2 Recombinant antibody, PBS Only (Detector)

Catalog Number: 83057-4-PBS



Basic Information

Catalog Number: 83057-4-PBS	GenBank Accession Number: NM_000807	Purification Method: Protein A purification
Concentration: 1mg/ml	GeneID (NCBI): 2555	CloneNo.: 230158H5
Source: Rabbit	UNIPROT ID: P47869	
Isotype: IgG	Full Name: gamma-aminobutyric acid (GABA) A receptor, alpha 2	
Immunogen Catalog Number: AG29301	Calculated MW: 51 kDa	
	Observed MW: 50-51 kDa	

Applications

Tested Applications:
FC (Intra), Cytometric bead array, Indirect ELISA

Species Specificity:
human

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only

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

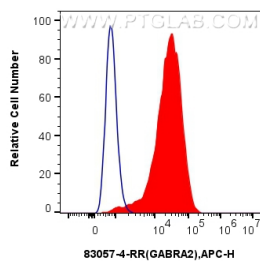
T: 4006900926

E: Proteintech-CN@ptglab.com

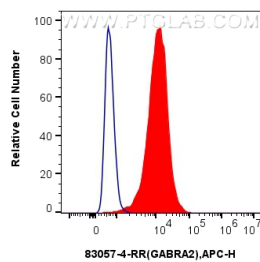
W: ptgcn.com

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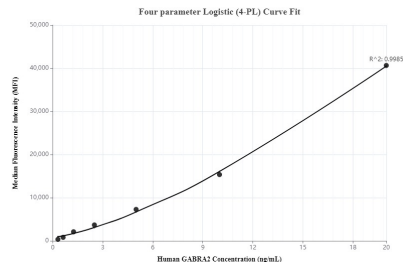
Selected Validation Data



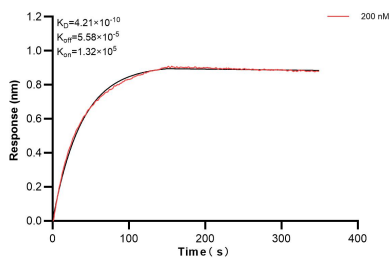
1x10⁶ HeLa cells were intracellularly stained with 0.25 ug Anti-Human GABRA2 (83057-4-RR, Clone:230158H5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83057-4-PBS in a different storage buffer formulation.



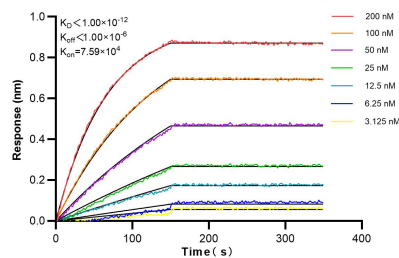
1x10⁶ A549 cells were intracellularly stained with 0.25 ug Anti-Human GABRA2 (83057-4-RR, Clone:230158H5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 83057-4-PBS in a different storage buffer formulation.



Cytometric bead array standard curve of MP00067-3, GABRA2 Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 83057-2-PBS. Detection antibody: 83057-4-PBS. Standard: Ag29301. Range: 0.312-20 ng/mL



Biolayer interferometry (BLI) kinetic assay of 83057-4-PBS against Human GABRA2 was performed. The affinity constant is 0.421 nM.



Biolayer interferometry (BLI) kinetic assays of 83057-4-RR against Human GABRA2 were performed. The affinity constant is below 1 pM.