

GLRB
Purified Mouse Monoclonal Antibody
Catalog # AO2618a**Specification**

GLRB - Product Information

Application	E, WB, FCM, ICC
Primary Accession	P48167
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Calculated MW	56.1kDa KDa
Immunogen	

Purified recombinant fragment of human GLRB (AA: extra 23-160) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

GLRB - Additional Information

Gene ID 2743

Other Names

HKPX2

Dilution

E~~ 1/10000
WB~~ 1/500 - 1/2000
FCM~~1/200 - 1/400
ICC~~ 1/200 - 1/1000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

GLRB is for research use only and not for use in diagnostic or therapeutic procedures.

GLRB - Protein Information

Name GLRB

Function

Glycine receptors are ligand-gated chloride channels. GLRB does not form ligand-gated ion channels by itself, but is part of heteromeric ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed:<a href="http://www.uniprot.org/citations/8717357"

target="_blank">8717357, PubMed:15302677, PubMed:16144831, PubMed:22715885, PubMed:25445488, PubMed:11929858, PubMed:23238346, PubMed:34473954). Heteropentameric channels composed of GLRB and GLRA1 are activated by lower glycine levels than homopentameric GLRA1 (PubMed:8717357). Plays an important role in the down-regulation of neuronal excitability (PubMed:11929858, PubMed:23238346). Contributes to the generation of inhibitory postsynaptic currents (PubMed:25445488).

Cellular Location

Postsynaptic cell membrane {ECO:0000250|UniProtKB:P48168}; Multi-pass membrane protein {ECO:0000250|UniProtKB:P23415}. Synapse {ECO:0000250|UniProtKB:P48168} Cell projection, dendrite {ECO:0000250|UniProtKB:P48168}. Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P23415}. Cytoplasm Note=Retained in the cytoplasm upon heterologous expression by itself Coexpression with GPHN promotes expression at the cell membrane (PubMed:12684523). Coexpression with GLRA1, GLRA2 or GLRA3 promotes expression at the cell membrane. {ECO:0000250|UniProtKB:P20781, ECO:0000269|PubMed:12684523}

GLRB - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GLRB - Images

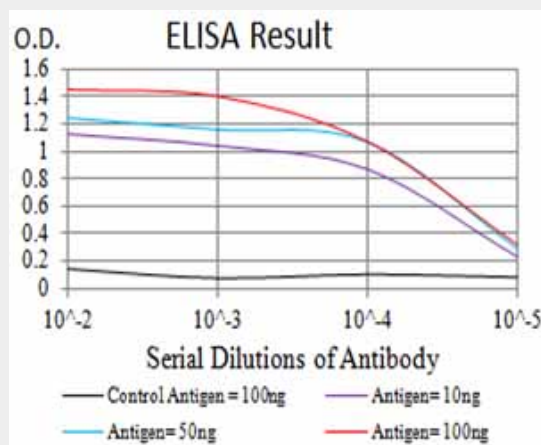


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

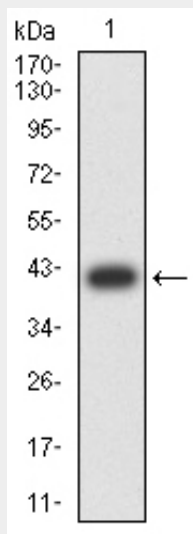


Figure 2: Western blot analysis using GLRB mAb against human GLRB (AA: extra 23-160) recombinant protein. (Expected MW is 41.8 kDa)

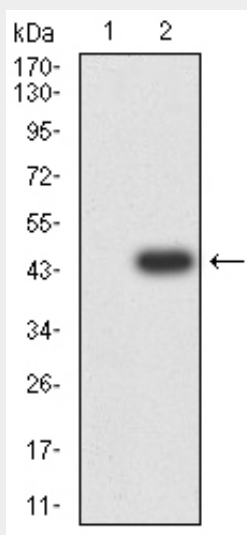


Figure 3: Western blot analysis using GLRB mAb against HEK293 (1) and GLRB (AA: extra 23-160)-hlgGFc transfected HEK293 (2) cell lysate.

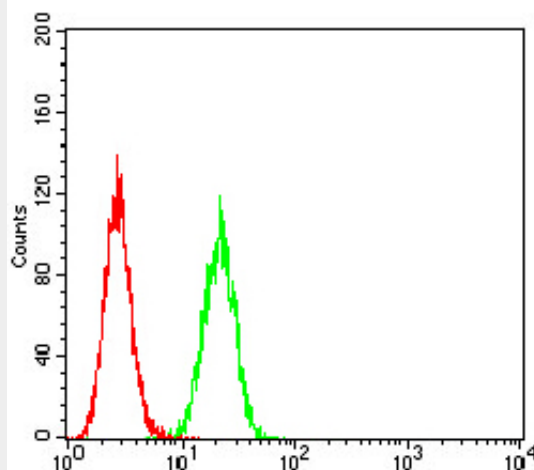


Figure 4:Flow cytometric analysis of Hela cells using GLRB mouse mAb (green) and negative control (red).

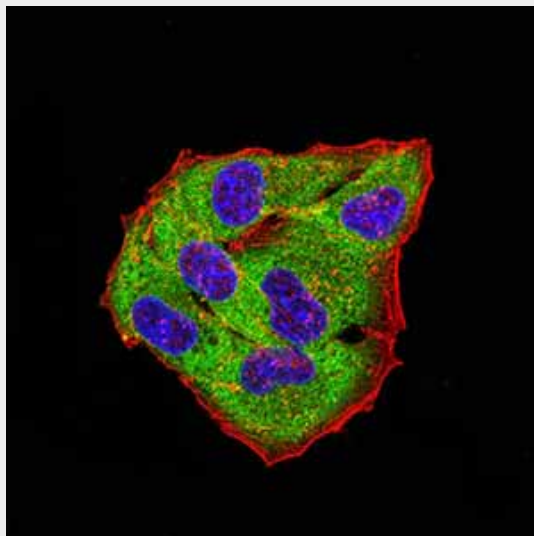


Figure 5:Immunofluorescence analysis of Hela cells using GLRB mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher (Cat#: 35503)

GLRB - References

- 1.Hum Mol Genet. 2013 Mar 1;22(5):927-40.2.Clin Genet. 2012 May;81(5):479-84.