

Rabbit alpha 2 Glycine Receptor Polyclonal Antibody | anti-GLRA2 antibody

GLRA2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328974	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)	ELISA

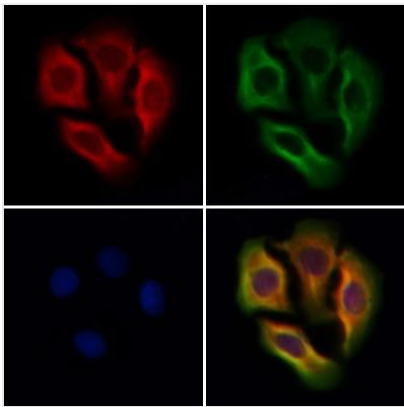
PRODUCT SYNONYMS

alpha 2 Glycine Receptor; Polyclonal Antibody; GLRA2 Antibody; GLR; Glra2; GLRA2_HUMAN; Glycine receptor alpha 2 polypeptide; Glycine receptor alpha 2 subunit; Glycine receptor subunit alpha 2; Glycine receptor subunit alpha-2; Glycine receptor alpha 2; anti-GLRA2 antibody

PRODUCT SPECIFICATIONS

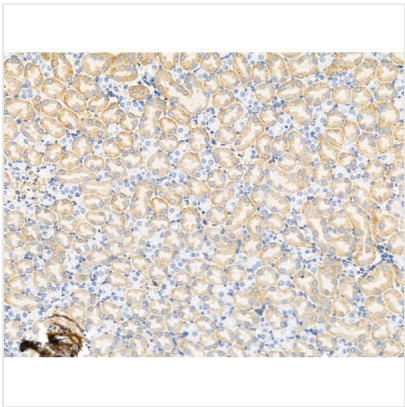
Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig(100%), Bovine(100%), Horse(100%), Sheep(100%), Rabbit(100%), Dog(100%)
Clonality	Polyclonal
Isotype	IgG
Specificity	GLRA2 Antibody detects endogenous levels of total GLRA2.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	452
Applicable Applications for anti-GLRA2 antibody	ELISA
Immunogen	A synthesized peptide derived from human GLRA2, corresponding to a region within N-terminal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



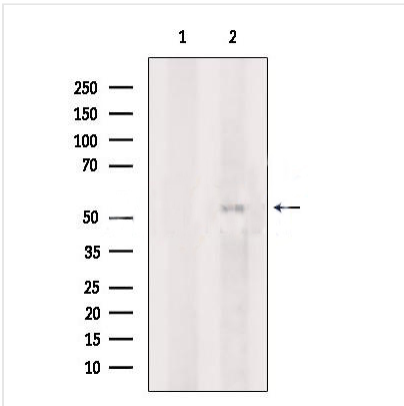
IF (Immunofluorescence)

AAA328974 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA328974 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

AAA328974 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of extracts from 3T3, using alpha 2 Glycine Receptor Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-GLRA2 antibody

Function: Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed:2155780, PubMed:15302677, PubMed:16144831, PubMed:23895467, PubMed:25445488). Channel opening is also triggered by taurine and beta-alanine (PubMed:15302677). Plays a role in the down-regulation of neuronal excitability. Contributes to the generation of inhibitory postsynaptic currents (PubMed:25445488). Plays a role in cellular responses to ethanol (PubMed:23895467).

Subcellular Location: Cell junction>Synapse>Postsynaptic cell membrane>Multi-pass membrane protein. Cell junction>Synapse. Cell membrane>Multi-pass membrane protein. Cell projection.

Subunit Structure: Homopentamer (in vitro). Interacts with GLRB (PubMed:16144831). Heteropentamer composed of GLRA2 and GLRB. Both homopentamers and heteropentamers form functional ion channels, but their characteristics are subtly different (PubMed:15302677).

Similarity: Belongs to the ligand-gated ion channel (TC 1.A.9) family. Glycine receptor (TC 1.A.9.3) subfamily. GLRA2 sub-subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #

121578

NCBI GeneID	2742
UniProt Accession #	P23416
Molecular Weight	Observed Molecular Weight: (Observed)52kD. Predicted Molecular Weight: (Calculated)52kDa.
NCBI Official Full Name	Glycine receptor subunit alpha-2
NCBI Official Synonym Full Names	glycine receptor alpha 2
NCBI Official Symbol	GLRA2
NCBI Official Synonym Symbols	GLR
NCBI Protein Information	glycine receptor subunit alpha-2
UniProt Protein Name	Glycine receptor subunit alpha-2
UniProt Gene Name	GLRA2
UniProt Entry Name	GLRA2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/alpha-2-glycine-receptor-antibody-elisa/328974>