

# Glra3 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI10781

### **Product Information**

Application	WB
Primary Accession	<u>Q91XP5</u>
Other Accession	<u>NM_080438, NP_536686</u>
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Chicken, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53709

## **Additional Information**

Gene ID	110304
Other Names	Glycine receptor subunit alpha-3, Glra3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-Glra3 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	Glra3 antibody - middle region is for research use only and not for use in diagnostic or therapeutic procedures.

## **Protein Information**

Name	Glra3
Function	Glycine receptors are ligand-gated chloride channels. Channel opening is triggered by extracellular glycine (PubMed: <u>15131310</u> , PubMed: <u>20978350</u> ). Channel characteristics depend on the subunit composition; heteropentameric channels display faster channel closure (By similarity). Plays an important role in the down-regulation of neuronal excitability. Contributes to the generation of inhibitory postsynaptic currents (PubMed: <u>15131310</u> ). Contributes to increased pain perception in response to increased prostaglandin E2 levels (PubMed: <u>15131310</u> ). Plays a role in the regulation of breathing rhythm, especially of the duration of the postinspiratory phase (PubMed: <u>20978350</u> ). Plays a role in cellular responses to ethanol (By similarity).

Cellular Location	Postsynaptic cell membrane; Multi-pass membrane protein. Synapse. Perikaryon. Cell projection, dendrite {ECO:0000250 UniProtKB:P24524}. Cell membrane; Multi-pass membrane protein. Note=Partially colocalizes with GPHN that is known to mediate receptor clustering at postsynaptic membranes
Tissue Location	Detected in brainstem, also in neurons that control rhythmic breathing (PubMed:20978350). Detected in superficial laminae of the dorsal horn of the thoracic spinal cord (PubMed:15131310) Detected in dentate gyrus in hippocampus, especially in stratum granulare (PubMed:19723286). Detected in the inner plexiform layer in the retina (at protein level) (PubMed:12975813). Detected in midbrain, thalamus, brain cortex, hippocampus, and at lower levels in cerebellum (PubMed:19723286).

# Images



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.