

GLRA1 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant GLRA1.****Catalog # AT2209a****Specification**

GLRA1 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	P23415
Other Accession	NM_000171
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	52624

GLRA1 Antibody (monoclonal) (M01) - Additional Information**Gene ID** 2741**Other Names**

Glycine receptor subunit alpha-1, Glycine receptor 48 kDa subunit, Glycine receptor strychnine-binding subunit, GLRA1

Target/Specificity

GLRA1 (NP_000162, 121 a.a. ~ 220 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

Format

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions

GLRA1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

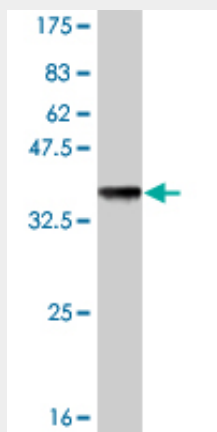
GLRA1 Antibody (monoclonal) (M01) - Protocols

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

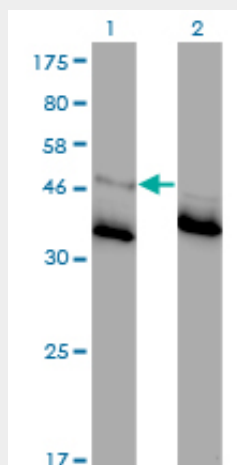
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GLRA1 Antibody (monoclonal) (M01) - Images



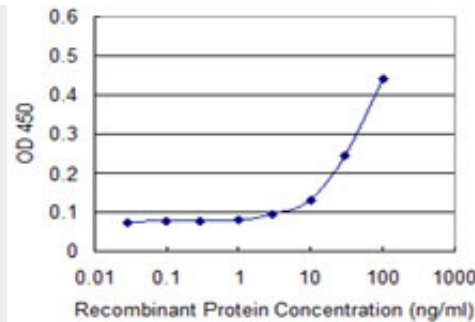
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



Western Blot analysis of GLRA1 expression in transfected 293T cell line by GLRA1 monoclonal antibody (M01), clone 2E6.

Lane 1: GLRA1 transfected lysate (51.7 kDa).

Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged GLRA1 is approximately 3ng/ml as a capture antibody.

GLRA1 Antibody (monoclonal) (M01) - Background

The protein encoded by this gene is a subunit of a pentameric inhibitory glycine receptor. The receptor mediates postsynaptic inhibition in the central nervous system. Defects in this gene are a cause of startle disease (STHE), also known as hereditary hyperekplexia or congenital stiff-person syndrome. Two transcript variants encoding different isoforms have been found for this gene.

GLRA1 Antibody (monoclonal) (M01) - References

External divalent cations increase anion-cation permeability ratio in glycine receptor channels. Sugiharto S, et al. Pflugers Arch, 2010 Jun. PMID 20198385. Multifunctional basic motif in the glycine receptor intracellular domain induces subunit-specific sorting. Melzer N, et al. J Biol Chem, 2010 Feb 5. PMID 19959465. Genetical genomic determinants of alcohol consumption in rats and humans. Tabakoff B, et al. BMC Biol, 2009 Oct 27. PMID 19874574. Recessive hyperekplexia mutations of the glycine receptor alpha1 subunit affect cell surface integration and stability. Villmann C, et al. J Neurochem, 2009 Nov. PMID 19732286. Interaction of androsterone and progesterone with inhibitory ligand-gated ion channels: a patch clamp study. Ziegler E, et al. Naunyn Schmiedeberg's Arch Pharmacol, 2009 Oct. PMID 19705103.