SunLong Biotech Co.,LTD
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Rabbit Anti-MGLUR3 antibody

SL12012R

Product Name	MGLUR3
Chinese Name	代谢型谷氨酸受体-3 抗体
Alias	G protein coupled receptor family C group 1 member C; GLUR 3; GLUR3; GLUR3; Glutamate metabotropic receptor 3; Glutamate receptor metabotropic 3; GPRC1C; GRM 3; GRM3; GRM3_HUMAN; Metabotropic glutamate receptor 3; Metabotropic glutamate receptor 3 precursor; mGlu 3; MGlu3; MGlu3; MGLUR 3; MGLUR3.
Research Area	Cell biology Neurobiology Signal transduction G protein-coupled receptor G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Mouse(predicted:Human,Rat,Cow,Horse,Rabbit)
Applications	WB=1:500-2000,Flow-Cyt=5μg/Test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	96kDa
Cellular localization	The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human Metabotropic Glutamate Receptor 3: 365-460/879 <Extracellular>
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

PubMed

PubMed

Glutamate receptors mediate most excitatory neurotransmission in the brain and play an important role in neural plasticity, neural development and neurodegeneration. Ionotropic glutamate receptors are categorized into NMDA receptors and kainate/AMPA receptors, both of which contain glutamate-gated, cation-specific ion channels. Kainate/AMPA receptors are co-localized with NMDA receptors in many synapses and consist of seven structurally related subunits designated GluR-1 to -7. The kainate/AMPA receptors are primarily responsible for the fast excitatory neuro-transmission by glutamate whereas the NMDA receptors are functionally characterized by a slow kinetic and a high permeability for Ca2+ ions. The NMDA receptors consist of five subunits: epsilion 1, 2, 3, 4 and one zeta subunit. The zeta subunit is expressed throughout the brainstem whereas the four epsilon subunits display limited distribution.

Function:
Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity.

Subunit:
nteracts with GRASP

Product Detail

Subcellular Location:
Cell membrane; Multi-pass membrane protein.

Similarity:
Belongs to the G-protein coupled receptor 3 family.

SWISS:
Q14832

Gene ID:
2913

Database links:

Entrez Gene: 2913 Human

Entrez Gene: 108069 Mouse

Entrez Gene: 24416 Rat

Omim: 601115 Human

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SwissProt: Q14832 Human

SwissProt: Q9QYS2 Mouse

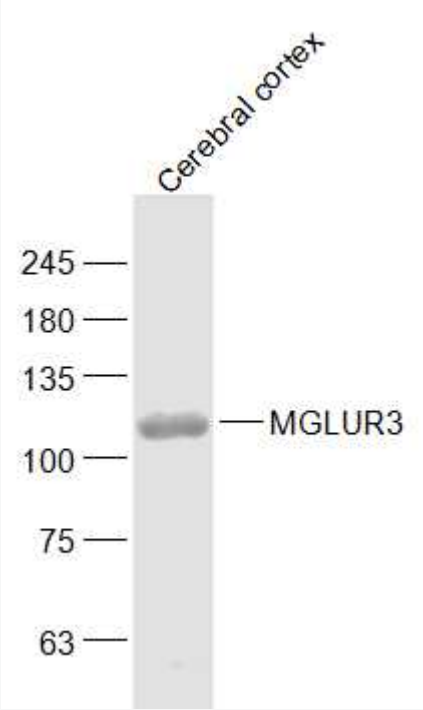
SwissProt: P31422 Rat

Unigene: 590575 Human

Unigene: 318966 Mouse

Unigene: 41715 Rat

Product Picture



Sample:

Cerebral cortex (Mouse) Lysate at 40 ug

Primary: Anti-MGLUR3 (SL12012R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 96 kD

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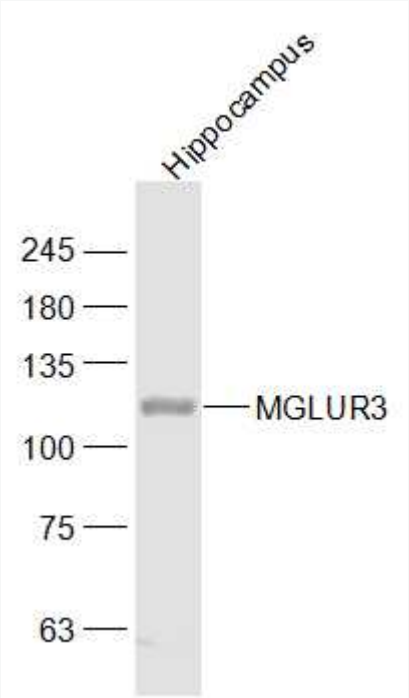
Observed band size: 116 kD



Sample:

Hippocampus (Mouse) Lysate at 40 ug

Primary: Anti-MGLUR3 (SL12012R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 96 kD

Observed band size: 116 kD

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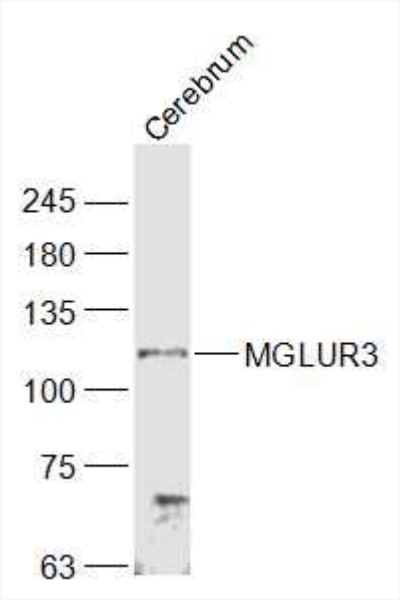

Sample:

Cerebrum (Mouse) Lysate at 40 ug

Primary: Anti-MGLUR3 (SL12012R) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 96 kD

Observed band size: 116 kD

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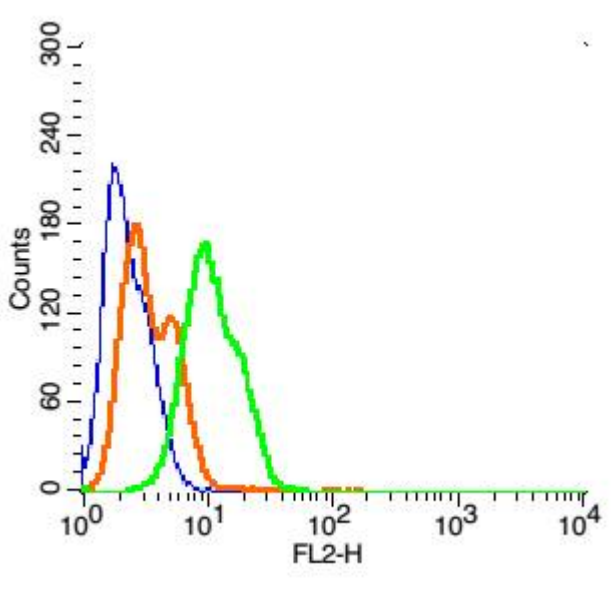

Blank control: Mouse Liver Cells(fixed with 2% paraformaldehyde (10 min) and then permeabilized with ice-cold 90% methanol for 30 min on ice).

Primary Antibody: Rabbit Anti- MGLUR3/PE Conjugated antibody (SL12012R-PE), Dilution: 5μg in 100 μL 1X PBS containing 0.5% BSA;

Isotype Control Antibody: Rabbit IgG/PE(orange) ,used under the same conditions.