Data Sheet (Cat.No.TMAB-08792)

TargetMol

Anti-MGLUR3 Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Mouse (predicted:Human,Rat,Cow,Horse,Rabbit)
Molecular Weight:	Theoretical: 96 kDa. Actual: 116 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. 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 (TMAB-08792-PE), Dilution: 5μg in 100 μL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG/Pe (orange), used under the same conditions. 2. Sample: Hippocampus (Mouse) Lysate at 40 μg Primary: Anti-MGLUR3 (TMAB-08792) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 96 kD Observed band size: 116 kD 3. Sample: Cerebral cortex (Mouse) Lysate at 40 μg Primary: Anti-MGLUR3 (TMAB-08792) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 96 kD Observed band size: 116 kD 4. Sample: Cerebrum (Mouse) Lysate at 40 μg Primary: Anti-MGLUR3 (TMAB-08792) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 96 kD Observed band size: 116 kD
Application:	WB,FCM
Recommended	WB: 1:500-2000; FCM: 5μg/Test

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human Metabotropic Glutamate Receptor 3
Antigen Species:	Human
Gene ID:	2913
Uniprot ID:	Q14832

Research Background

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.

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