

mGluR-2/3 Polyclonal Antibody

Catalog No :	YT2743
Reactivity :	Human;Mouse;Rat
Applications :	WB;IHC;IF;ELISA
Target :	mGluR-2/3
Fields :	>>Phospholipase D signaling pathway;>>Neuroactive ligand-receptor interaction;>>Glutamatergic synapse;>>Cocaine addiction
Gene Name :	GRM2
Protein Name :	Metabotropic glutamate receptor 2
Human Gene Id :	2912/2913
Human Swiss Prot No :	Q14416/Q14832
Mouse Gene Id :	108068/108069
Rat Gene Id :	24415/24416
Rat Swiss Prot No :	P31421/P31422
Immunogen :	The antiserum was produced against synthesized peptide derived from human mGluR2/3. AA range:823-872
Specificity :	mGluR-2/3 Polyclonal Antibody detects endogenous levels of mGluR-2/3 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 100kD

Cell Pathway : Neuroactive ligand-receptor interaction;

Background : glutamate metabotropic receptor 2(GRM2) Homo sapiens L-glutamate is the major excitatory neurotransmitter in the central nervous system and activates both ionotropic and metabotropic glutamate receptors. Glutamatergic neurotransmission is involved in most aspects of normal brain function and can be perturbed in many neuropathologic conditions. The metabotropic glutamate receptors are a family of G protein-coupled receptors, that have been divided into 3 groups on the basis of sequence homology, putative signal transduction mechanisms, and pharmacologic properties. Group I includes GRM1 and GRM5 and these receptors have been shown to activate phospholipase C. Group II includes GRM2 and GRM3 while Group III includes GRM4, GRM6, GRM7 and GRM8. Group II and III receptors are linked to the inhibition of the cyclic AMP cascade but differ in their agonist selectivities. Two transcript variants encoding different isoforms have been found for this gene

Function : function:Receptor for glutamate. The activity of this receptor is mediated by a G-protein that inhibits adenylate cyclase activity. May mediate suppression of neurotransmission or may be involved in synaptogenesis or synaptic stabilization.,similarity:Belongs to the G-protein coupled receptor 3 family.,subunit:Interacts with GRASP.,tissue specificity:Widely expressed in different regions of the adult brain as well as in fetal brain.,

Subcellular Location : Cell membrane; Multi-pass membrane protein. Cell junction, synapse . Cell projection, dendrite .

Expression : Detected in brain cortex (at protein level). Widely expressed in different regions of the adult brain as well as in fetal brain.

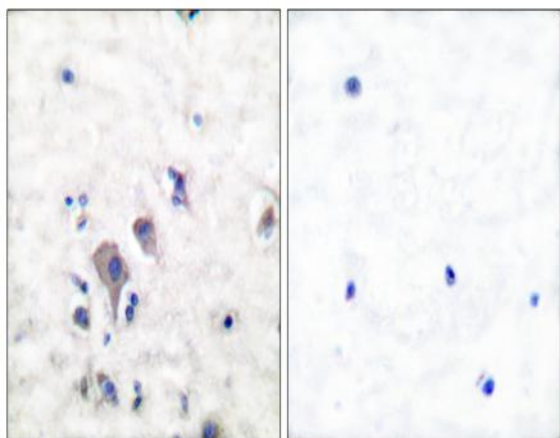
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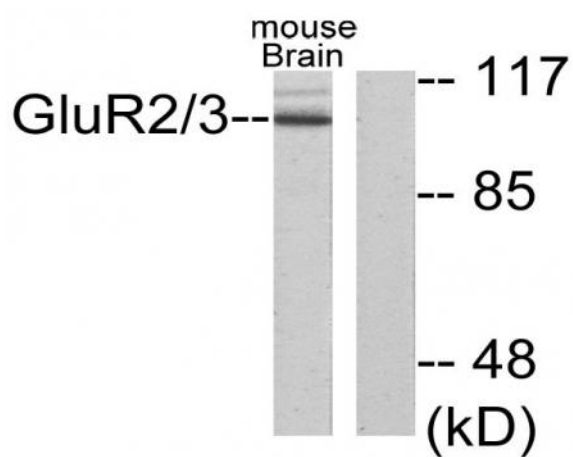
Host : Rabbit

Modifications : Unmodified

Products Images



Immunohistochemistry analysis of paraffin-embedded human brain tissue, using mGluR2/3 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from mouse brain, using mGluR2/3 Antibody. The lane on the right is blocked with the synthesized peptide.