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Rabbit Anti-mGluR6/AP Conjugated antibody

SL18802R-AP

Product Name	Anti-mGluR6/AP
Chinese Name	碱性磷酸酶（AP）标记的促代谢型谷氨酸受体 6 抗体
Alias	Metabotropic Glutamate Receptor 6; CSNB1B; DKFZp686H1993; GluR6; Glutamate receptor metabotropic 6; GPRC1F; GRM6; GRM6_HUMAN; Metabotropic glutamate receptor 6; mGlu6; mGluR6.
Research Area	Cell biology Neurobiology Signal transduction G protein-coupled receptor G protein signal
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit,Sheep)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	33, 95kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human mGluR6
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** 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. [provided by RefSeq, Feb 2012]

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

Subunit:
Homodimer.

Subcellular Location:
Cell membrane.

Tissue Specificity:
Detected in melanocytes.

DISEASE:
Defects in GRM6 are the cause of congenital stationary night blindness type 1B (CSNB1B) [MIM:257270]. This disorder consits of a previously unrecognized, autosomal recessive form of congenital night blindness associated with a negative electroretinogram waveform. Patients are night blind from an early age, and when maximally dark-adapted, they could perceive lights only with an intensity equal to or slightly dimmer than that normally detected by the cone system. ERGs in response to single brief flashes of light have clearly detectable a-waves, which are derived from photoreceptors, and greatly reduced b-waves, which are derived from the second-order inner retinal neurons. ERGs in response to sawtooth flickering light indicate a markedly reduced ON response and a nearly normal OFF response. There is no subjective delay in the perception of suddenly appearing white vs black objects on a gray background.

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

Database links:

Entrez Gene: 2916 Human

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Entrez Gene: 108072 Mouse

Entrez Gene: 100009501 Rabbit

Entrez Gene: 24419 Rat

Omim: 604096 Human

SwissProt: O15303 Human

SwissProt: Q5NCH9 Mouse

SwissProt: Q863I4 Rabbit

SwissProt: P35349 Rat

Unigene: 248131 Human

Unigene: 134265 Mouse

Unigene: 44615 Rat

Important Note:
This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.