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GRID2 Rabbit pAb

Catalog # AP96184

Product Information

Application	WB
Primary Accession	O43424.2
Other Accession	O43424.2
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	110 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GRID2
Epitope Specificity	501-600/1007
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrial
SIMILARITY	Belongs to the glutamate-gated ion channel (TC 1.A.10.1) family. GRID2 subfamily.
SUBUNIT	Interacts with AIP1, AP4M1, BECN1, GOPC, GRID2IP, SHANK1 and SHANK2 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	GLUD2 is both mitochondrial matrix enzymes belonging to the Glu/Leu/Phe/Val dehydrogenases family. Exisiting as homohexamers, GLUD1 catalyzes the oxidative deamination of glutamate to ?ketoglutarate and ammonia while GLUD2 is involved in the recycling of glutamate during neurotransmission. GLUD1 is critical for regulating amino acid induced insulin secretion and is allosterically activated by ADP and inhibited by GTP and ATP. Mutations in the gene encoding GLUD1 causes hyperinsulinism-hyperammonemia syndrome (HHS), which is an inherited condition characterized by high insulin and ammonia levels in the blood. GLUD1 may also be involved in learning and memory reactions by increasing the turnover of the excitatory neurotransmitter glutamate. GLUD2 is expressed in testis and retina, with lower levels found in brain.

Additional Information

Gene ID	2895
Other Names	GluD2; SCAR18; glutamate ionotropic receptor delta type subunit 2; glutamate receptor, ionotropic, delta 2
Dilution	WB=1:500-2000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GRID2 Rabbit pAb
Function	GLUD2, Glutamate dehydrogenase 2, is important for recycling the chief excitatory neurotransmitter, glutamate, during neurotransmission. It is expressed in retina, testis and, at a lower level, brain.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.