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SUR1 Rabbit pAb

Catalog # AP96909

Product Information

Application	WB
Primary Accession	Q09428
Other Accession	Q09428
Reactivity	Rat, Human, Mouse
Predicted	Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	176992
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SUR1
Epitope Specificity	301-400/1581
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the ABC transporter superfamily. ABCC family. Conjugate transporter (TC 3.A.1.208) subfamily.Contains 2 ABC transmembrane type-1 domains.Contains 2 ABC transporter domains.
SUBUNIT	Interacts with KCNJ11.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SUR1 is a member of ATP binding cassette super family. SUR receptor confers the sensitivity of Kir6.2 to ATP/ADP sensitivity and to pharmacological agents such as sulfonylurea and diazoxide that close or open the KATP channels. The persistent heyperinsulinimic hypoglycemia in infancy (PHHI) is familial disorder due to defect in negative feed back in response to low glucose levels. SUR1 was mapped on chromosome 11p14-15.1, the same location where the gene for PHHI is located. It has been shown that the expression of Kir6.2 and SUR1 are regulated by glucose levels and the actives of glucogon like peptide receptor 1. Abnormal insulin secretion in PHHI appears to be caused by mutations in the SUR gene.

Additional Information

Gene ID	6833
Other Names	ABC36; HHF1; HI; HRINS; MODY12; MRP8; PHHI; PNDM3; SUR; SUR1; SUR1delta2; TNDM2; D930031B21Rik; ABCC8_HUMAN; ABCC8; Sulfonylurea receptor 1; ABCC8_RAT; ATP binding cassette subfamily C member 8; ATP-binding cassette, sub-family C (CFTR/MRP), member 8; sulfonylurea receptor (hyperinsulinemia)
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	ABCC8
Synonyms	HRINS, SUR, SUR1
Function	Regulator subunit of pancreatic ATP-sensitive potassium channel (KATP), playing a major role in the regulation of insulin release. In pancreatic cells, it forms KATP channels with KCNJ11; KCNJ11 forms the channel pore while ABCC8 is required for activation and regulation.
Cellular Location	Cell membrane; Multi-pass membrane protein

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