Datasheet for ABIN2781496

anti-ABCC8 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	ABCC8
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Dog, Cow, Pig, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ABCC8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ABCC8
Sequence:	PLAFCGSENH SAAYRVDQGV LNNGCFVDAL NVVPHVFLLF ITFPILFIGW
Predicted Reactivity:	Cow: 100%, Dog: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 85%
Characteristics:	This is a rabbit polyclonal antibody against ABCC8. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ABCC8

Target Details

Alternative Name:	ABCC8 (ABCC8 Products)
Background:	ABCC8 is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). ABCC8 is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a modulator of ATP-sensitive potassium channels and insulin release. Mutations and deficiencies in this protein have been observed in patients with hyperinsulinemic hypoglycemia of infancy, an autosomal recessive disorder of unregulated and high insulin secretion. Mutations have also been associated with non-insulin-dependent diabetes mellitus type II, an autosomal dominant disease of defective insulin secretion.The protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MRP subfamily which is involved in multi-drug resistance. This protein functions as a modulator of ATP-sensitive potassium channels and insulin release. Mutations and deficiencies in this protein have been observed in patients with hyperinsulinemic hypoglycemia of infancy, an autosomal recessive disorder of unregulated and high insulin secretion. Mutations have also been associated with non-insulin-dependent diabetes mellitus type II, an autosomal dominant disease of defective insulin secretion. Alternative splicing of this gene has been observed, however, the transcript variants have not been fully described. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: ABC36, HHF1, HI, HRINS, MRP8, PHHI, SUR, SUR1, TNDM2, SUR1delta2 Protein Interaction Partner: ENSA, KCNJ11, CRYBB1, KCNJ8, RAPGEF4, Protein Size: 1581
Molecular Weight:	177 kDa
Gene ID:	6833
NCBI Accession:	NM_000352, NP_000343
UniProt:	Q09428
Pathways:	Negative Regulation of Hormone Secretion

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.

Application Details

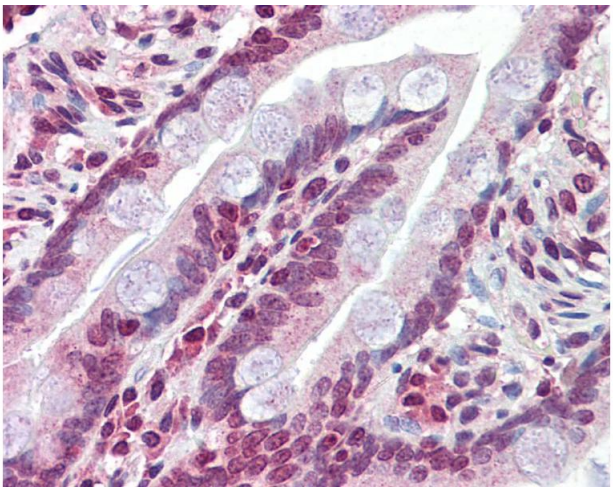
Comment:	Antigen size: 1581 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

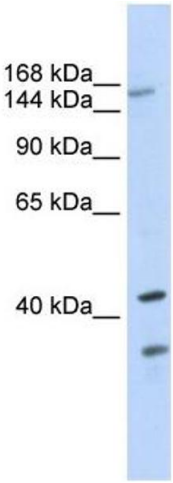
Publications

Product cited in:	Němcová-Fürstová, Kopperová, Balušíková, Ehrlichová, Brynychová, Václavíková, Daniel, Souček, Kovář: "Characterization of acquired paclitaxel resistance of breast cancer cells and involvement of ABC transporters." in: **Toxicology and applied pharmacology**, Vol. 310, pp. 215-228, (2016) (PubMed).



Immunohistochemistry

Image 1.



Western Blotting

Image 2. WB Suggested Anti-ABCC8 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: 293T cell lysate