abcam

Product datasheet

Anti-SUR1 antibody ab217633

1 References 2 Images

Overview

Product name	Anti-SUR1 antibody
Description	Rabbit polyclonal to SUR1
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Mouse, Rat **Predicted to work with:** Human
Immunogen	Synthetic peptide within Human SUR1 aa 332-355 conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary. Database link: **Q09428**
Positive control	IHC-P: Mouse intestine tissue.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), 1% BSA, 48.98% TBS, 1X
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab217633 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100 - 1/500.
WB		1/1000.

Target

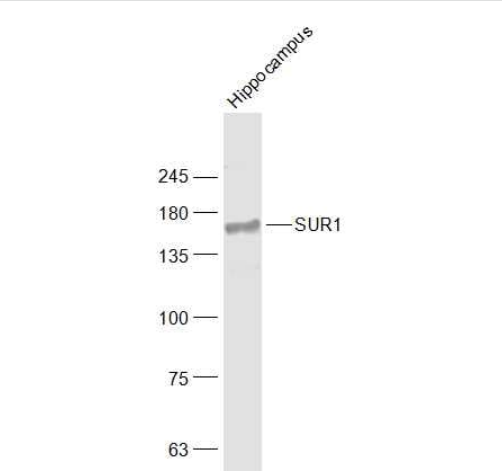
Function Putative subunit of the beta-cell ATP-sensitive potassium channel (KATP). Regulator of ATP-sensitive K(+) channels and insulin release.

Involvement in disease Defects in ABCC8 are a cause of leucine-induced hypoglycemia (LIH) [MIM:240800]; also known as leucine-sensitive hypoglycemia of infancy. LIH is a rare cause of hypoglycemia and is described as a condition in which symptomatic hypoglycemia is provoked by high protein feedings. Hypoglycemia is also elicited by administration of oral or intravenous infusions of a single amino acid, leucine.
Defects in ABCC8 are the cause of familial hyperinsulinemic hypoglycemia type 1 (HHF1) [MIM:256450]; also known as persistent hyperinsulinemic hypoglycemia of infancy (PHHI) or congenital hyperinsulinism. HHF is the most common cause of persistent hypoglycemia in infancy and is due to defective negative feedback regulation of insulin secretion by low glucose levels. It causes nesidioblastosis, a diffuse abnormality of the pancreas in which there is extensive, often disorganized formation of new islets. Unless early and aggressive intervention is undertaken, brain damage from recurrent episodes of hypoglycemia may occur.
Defects in ABCC8 are a cause of diabetes mellitus permanent neonatal (PNDM) [MIM:606176]. PNDM is a rare form of diabetes distinct from childhood-onset autoimmune diabetes mellitus type 1. It is characterized by insulin-requiring hyperglycemia that is diagnosed within the first months of life. Permanent neonatal diabetes requires lifelong therapy.
Defects in ABCC8 are the cause of transient neonatal diabetes mellitus type 2 (TNDM2) [MIM:610374]. Neonatal diabetes is a form of diabetes mellitus defined by the onset of mild-to-severe hyperglycemia within the first months of life. Transient neonatal diabetes remits early, with a possible relapse during adolescence.

Sequence similarities 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.

Cellular localization Membrane.

Images

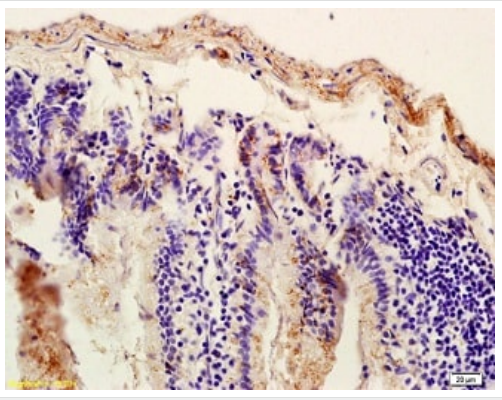


Western blot - Anti-SUR1 antibody (ab217633)

Anti-SUR1 antibody (ab217633) at 1/1000 dilution + Rat hippocampus lysates

Secondary

Conjugated secondary antibody at 1/20000 dilution



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SUR1 antibody (ab217633)

Immunohistochemical analysis of formalin-fixed and paraffin-embedded mouse intestine tissue labeling SUR1 with ab217633 at 1/200 dilution, followed by conjugation to the secondary antibody and DAB staining.

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