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Datasheet for ABIN3044131

anti-SLC2A5 antibody (Middle Region)

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Overview

Quantity:	100 µg
Target:	SLC2A5
Binding Specificity:	AA 232-251, Middle Region
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter member 5(SLC2A5) detection. Tested with WB, IHC-P, IHC-F in Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of mouse SLC2A5(232-251aa ALQTLRGWKDVHLEMEEIRK), different from the related rat sequence by two amino acids.
Sequence:	ALQTLRGWKD VHLEMEEIRK
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter member 5(SLC2A5) detection. Tested with WB, IHC-P, IHC-F in Mouse,Rat. Gene Name: solute carrier family 2(facilitated glucose/fructose transporter), member 5

Product Details

	Protein Name: Solute carrier family 2, facilitated glucose transporter member 5
Purification:	Immunogen affinity purified.

Target Details

Target:	SLC2A5
Alternative Name:	SLC2A5 (SLC2A5 Products)
Background:	GLUT5(Glucose transporter 5), also known as SLC2A5, is a fructose transporter expressed on the apical border of enterocytes in the small intestine. The GLUT5 gene is located on chromosome 1. GLUT5 allows for fructose to be transported from the intestinal lumen into the enterocyte by facilitated diffusion due to fructose's high concentration in the intestinal lumen. GLUT5 is also expressed in skeletal muscle, testis, kidney, fat tissue, and brain. Fructose malabsorption or Dietary Fructose Intolerance is a dietary disability of the small intestine, where the amount of fructose carrier in enterocytes is deficient. In humans the GLUT5 protein is encoded by the SLC2A5 gene. Synonyms: Facilitated glucose transporter member 5 antibody|Fructose transporter antibody|glucose transporter like protein 5 antibody|Glucose transporter type 5 antibody|Glucose transporter type 5 small intestine antibody|GLUT 5 antibody|GLUT-5 antibody|GLUT5 antibody|GTR5_HUMAN antibody|SLC 2A5 antibody|SLC2A5 antibody|small intestine antibody|Solute carrier family 2 antibody

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Rat, Predicted Species: Mouse Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and IHC(F).
Restrictions:	For Research Use only

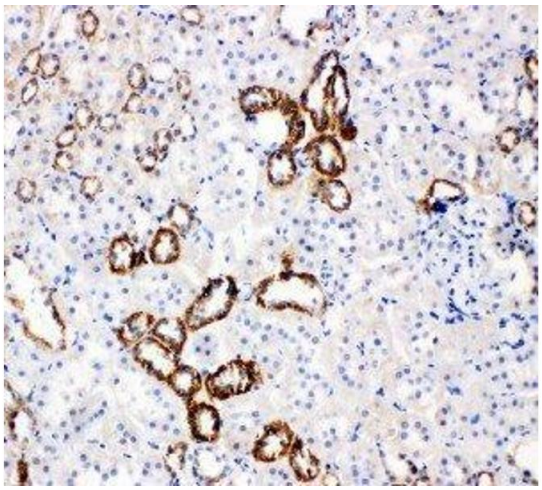
Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Thimerosal, 0.05 mg Sodium azide.
Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Expiry Date:	12 months

Publications

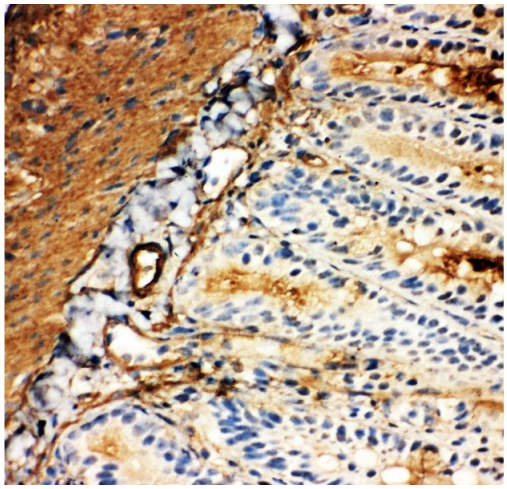
Product cited in:	Liu, Chen, Wang, Yang, Xue, Zhu: "Msi1 confers resistance to TRAIL by activating ERK in liver cancer cells." in: **FEBS letters**, Vol. 589, Issue 8, pp. 897-903, (2015) (PubMed).

Images



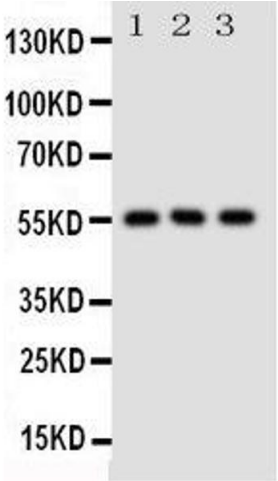
Immunohistochemistry

Image 1. Anti-Glucose Transporter 5 GLUT5 antibody, IHC(P) IHC(P): Rat Kidney Tissue



Immunohistochemistry

Image 2. Anti-Glucose Transporter 5 GLUT5 antibody, IHC(F) IHC(F): Rat Intestine Tissue



Western Blotting

Image 3.

