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Datasheet for ABIN3043929 anti-GLUT4 antibody (AA 333-509)

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4 Publications



Overview

Quantity:	100 µg
Target:	GLUT4 (SLC2A4)
Binding Specificity:	AA 333-509
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This GLUT4 antibody is un-conjugated
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 4(SLC2A4) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.

Immunogen:	E.coli-derived human GLUT4 recombinant protein (Position: N333-D509). Human GLUT4 shares
	97% amino acid (aa) sequence identity with mouse GLUT4.

Isotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Solute carrier family 2, facilitated glucose transporter
	member 4(SLC2A4) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.
	Gene Name: solute carrier family 2 (facilitated glucose transporter), member 4
	Protein Name: Solute carrier family 2, facilitated glucose transporter member 4

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Product Details

Purification:

Immunogen affinity purified.

Target Details

Target:	GLUT4 (SLC2A4)
Alternative Name:	SLC2A4 (SLC2A4 Products)
Background:	GLUT4, also known as SLC2A4 or solute carrier family 2 (facilitated glucose transporter)
	member 4, is a protein that in humans is encoded by the GLUT4 gene. It is mapped to 17p13.1.
	This gene is a member of the solute carrier family 2 (facilitated glucose transporter) family and
	encodes a protein that functions as an insulin-regulated facilitative glucose transporter. In the
	absence of insulin, this integral membrane protein is sequestered within the cells of muscle and
	adipose tissue. Within minutes of insulin stimulation, the protein moves to the cell surface and
	begins to transport glucose across the cell membrane. Mutations in this gene have been
	associated with noninsulin-dependent diabetes mellitus (NIDDM).
	Synonyms: insulin-responsive antibody Glucose transporter GLUT 4 antibody Glucose
	transporter type 4 antibody Glucose transporter type 4 insulin responsive antibody GLUT 4
	antibody GLUT-4 antibody GLUT4 antibody GTR4_HUMAN antibody kug antibody SLC 2A4
	antibody SLC2A4 antibody solute carrier family 2 (facilitated glucose transporter) member 4
	antibody Solute carrier family 2, facilitated glucose transporter member 4 antibody
Gene ID:	6517
UniProt:	P14672
Pathways:	AMPK Signaling, Carbohydrate Homeostasis, Proton Transport, Brown Fat Cell Differentiation,
	Warburg Effect
Application Details	

Application Notes:	WB: Concentration: 0.1-0.5 μ g/mL, Tested Species: Rat, Predicted Species: Human, The
	detection limit for GLUT4 is approximately 0.25 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 μ g/mL, Tested Species: Human, 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: Mouse, Rat
	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.

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Application Details	
	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
Londing	
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 Sodium azide.
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 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.
Publications	
Product cited in:	Yang, Gao, Wu, Yu, Li, Meng, Li, Yan, Jin: "Epigallocatechin-3-gallate attenuates neointimal
	hyperplasia in a rat model of carotid artery injury by inhibition of high mobility group box 1
	expression." in: Experimental and therapeutic medicine, Vol. 14, Issue 3, pp. 1975-1982, (2017)
	(PubMed).
	Yu, Yu, Liu, Yu, Liu, Liu, Su, Jiang, Chen: "Ethyl pyruvate attenuated coxsackievirus B3-induced
	acute viral myocarditis by suppression of HMGB1/RAGE/NF-KB pathway." in: SpringerPlus, Vol.
	5, pp. 215, (2016) (PubMed).

Qin, Niu, Wang, Xu, Qiao, Gu: "Heparanase induced by advanced glycation end products (AGEs) promotes macrophage migration involving RAGE and PI3K/AKT pathway." in: **Cardiovascular**

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Liu, Wang, Feng, Ma, Fu, Song, Jia, Ma: "Hypoglycemic and antioxidant activities of paeonol and its beneficial effect on diabetic encephalopathy in streptozotocin-induced diabetic rats." in: **Journal of medicinal food**, Vol. 16, Issue 7, pp. 577-86, (2013) (PubMed).

Wang, Zhang, Liu, Cui, Yang, Li, Du: "Tanshinone II A down-regulates HMGB1, RAGE, TLR4, NFkappaB expression, ameliorates BBB permeability and endothelial cell function, and protects rat brains against focal ischemia." in: **Brain research**, Vol. 1321, pp. 143-51, (2010) (PubMed).

Validation report #300030 for Immunohistochemistry (IHC)





Immunohistochemistry

Image 1. Anti-GLUT4 Picoband antibody, IHC(P): Human Intestinal Cancer Tissue

Western Blotting

Image 2. Anti-GLUT4 Picoband antibody, All lanes: Anti GLUT4 at 0.5ug/ml Lane 1: Rat Cardiac MuscleTissue Lysate at 50ug Lane 2: Rat Skeletal MuscleTissue Lysate at 50ug Predicted bind size: 55KD Observed bind size: 55KD

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Immunohistochemistry

Image 3. Anti-GLUT4 Picoband antibody, IHC(F): Rat Cardiac Muscle Tissue

Please check the product details page for more images. Overall 6 images are available for ABIN3043929.

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