

Datasheet: OBT3133

Description:	RABBIT ANTI HUMAN GLUT-1
Specificity:	GLUCOSE TRANSPORTER 1
Other names:	GLUT1
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			1 - 10ug/ml
Western Blotting	▪			1 - 10ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species

Human

Species Cross Reactivity

Reacts with: Mouse, Rat

Based on sequence similarity, is expected to react with: Bovine, Cat, Dog, Horse, Pig, Rabbit, Rhesus Monkey, Sheep

N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

Product Form

Purified IgG - liquid

Preparation

Purified IgG prepared by affinity chromatography

Buffer Solution

Phosphate buffered saline

Preservative

0.1% Sodium Azide (NaN₃)

Stabilisers

Approx. Protein Concentrations IgG concentration 0.1mg/ml

Immunogen 12 amino acid peptide of the C-terminus of hGLUT-1 (LFHPLGADSQV) conjugated to KLH.

External Database Links

UniProt:
[P11166](#) [Related reagents](#)

Entrez Gene:
[6513](#) SLC2A1 [Related reagents](#)

Synonyms GLUT1

RRID AB_2190588

Specificity **Rabbit anti Human glucose transporter-1 antibody** recognizes human Solute carrier family 2, facilitated glucose transporter member 1, also known as GLUT-1, glucose transporter type 1, erythrocyte/brain or HepG2 glucose transporter. GLUT-1 is a 492 amino acid ~50 kDa multi-pass transmembrane glycoprotein involved in cellular uptake of glucose.

Mutations in the GLUT1 gene can lead to a number of chronic conditions including GLUT1 deficiency syndrome 1 ([GLUT1DS1](#)), a neurologic disorder with wide phenotypic variability ([Wang et al. 2005](#)), GLUT1 deficiency syndrome 2 ([GLUT1DS2](#)), characterized by juvenile onset of exercise-induced dyskinesia ([Weber et al. 2008](#)), Epilepsy, idiopathic generalized 12 ([EIG12](#)) a condition presenting with repeated generalized seizures ([Stranio et al. 2012](#)) and Dystonia 9 ([DYT9](#)) a dominant inherited disorder presenting as a childhood onset of paroxysmal choreoathetosis and progressive spastic paraplegia ([Weber et al. 2011](#)).

Further Reading 1. Chen, L.Y. & Phelix, C.F. (2019) Extracellular gating of glucose transport through GLUT 1. [Biochem Biophys Res Commun. Feb 26 \[Epub ahead of print\]](#).

Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/OBT3133>
10040

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)

[FITC](#)

Sheep Anti Rabbit IgG (STAR35...)

[RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)

[Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

Goat Anti Rabbit IgG (H/L) (STAR124...)

[HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)**North & South** Tel: +1 800 265 7376**Worldwide**

Tel: +44 (0)1865 852 700

Europe

Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.comEmail: antibody_sales_uk@bio-rad.comEmail: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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