

Datasheet: OBT3133

BATCH NUMBER 020714

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 Stabilisers	0.1% Sodium Azide (NaN ₃)
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	<p>UniProt: P11166 Related reagents</p> <p>Entrez Gene: 6513 SLC2A1 Related reagents</p>
Synonyms	GLUT1
RRID	AB_2190588
Specificity	<p>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.</p> <p>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 (Striano 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).</p>
Further Reading	<p>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].</p>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Guarantee	12 months from date of despatch
Health And Safety Information	<p>Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/OBT3133</p> <p>10040</p>

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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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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