

## Datasheet: OBT3133

<b>Description:</b>	RABBIT ANTI HUMAN GLUT-1
<b>Specificity:</b>	GLUCOSE TRANSPORTER 1
<b>Other names:</b>	GLUT1
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	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](http://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.

### Product Form

Purified IgG - liquid

### Preparation

Purified IgG prepared by affinity chromatography

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.1% Sodium Azide (NaN<sub>3</sub>)

### 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](#)

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<b>Synonyms</b>	GLUT1
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<b>Specificity</b>	<p><b>Rabbit anti Human glucose transporter-1 antibody</b> 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 (<a href="#">GLUT1DS1</a>), a neurologic disorder with wide phenotypic variability (<a href="#">Wang et al. 2005</a>), GLUT1 deficiency syndrome 2 (<a href="#">GLUT1DS2</a>), characterized by juvenile onset of exercise-induced dyskinesia (<a href="#">Weber et al. 2008</a>), Epilepsy, idiopathic generalized 12 (<a href="#">EIG12</a>) a condition presenting with repeated generalized seizures (<a href="#">Stranio et al. 2012</a>) and Dystonia 9 (<a href="#">DYT9</a>) a dominant inherited disorder presenting as a childhood onset of paroxysmal choreoathetosis and progressive spastic paraplegia (<a href="#">Weber et al. 2011</a>).</p>
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<b>Storage</b>	<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>
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<b>Shelf Life</b>	18 months from date of despatch.
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<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation available at: Material Safety Datasheet Documentation #10303 available at: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10303.pdf</a></p>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),  
[DyLight@680](#), [DyLight@800](#)

### Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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