

AB-PN989

SLC2A1-pT478 Antibody

Phosphosite-specific rabbit polyclonal antibody for SLC2A1 (GLUT-1). This phosphothreonine-site antibody is highly specific for phosphothreonine in the phosphosite.

Website: www.kinexus.ca
Email: info@kinexus.ca
Phone: 604-323-2547



Address: 8755 Ash Street, Suite 1
Vancouver, British Columbia,
Canada V6P 6T3

Target Protein

Protein Name Long:	Solute carrier family 2, facilitated glucose transporter member 1
Protein Alias:	Glucose transporter type 1, erythrocyte/brain; GLUT-1; GTR1; HepG2 glucose transporter
UniProt ID:	P11166
Protein Molecular Mass:	54,084 Da (492 AA)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human SLC2A1
Antibody Immunogen Sequence:	C(βA)QSDK(pT)PEE
Antibody Immunogen Description:	Corresponds to amino acid residues Q474 to E481. The effect of T478 phosphorylation is unclear. This is a minor <i>in vivo</i> phosphorylation sites in SLC2A1 based on ≥14 mass spectrometry reports reported in PhosphoSitePlus.
Antibody Target Type:	Phosphosite-specific

Production

Antibody Host Species:	Rabbit
Antibody Type:	Polyclonal
Antibody Isotype:	IgG
Production Method:	The immunizing peptide was produced by solid phase synthesis on a multipep peptide synthesizer and purified by reverse-phase hplc chromatography. Purity was assessed by analytical hplc and the amino acid sequence confirmed by mass spectrometry analysis. This peptide was coupled to KLH prior to immunization into rabbits. New Zealand White rabbits were subcutaneously injected with KLH-coupled immunizing peptide every 4 weeks for 4 months. The sera from these animals was applied onto an agarose column to which the immunogen peptide was thio-linked. Antibody was eluted from the column with 0.1 M glycine, pH 2.5. Subsequently, the antibody solution was neutralized to pH 7.0 with saturated Tris.
Amount:	25 µg
Antibody Concentration:	0.8 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerasol
Storage Conditions:	For long term storage, keep frozen at -40°C or lower. Stock solution can be kept at +4°C for more than 3 months. Avoid repeated freeze-thaw cycles.
Storage Stability:	>2 years

Applications

Product Use:	Western blotting Antibody microarray
Antibody Dilution Recommended:	2 µg/ml for immunoblotting
Antibody Species Reactivity:	Human Rhesus macaque Dog Rat Mouse Chicken Frog

This product is for *in vitro* research use only and is not intended for use in humans or animals.

For more information on our products please visit <https://kinexus-ca.myshopify.com/> or contact us at 1-866-546-3987