

AB-PN832

Kv4.2-pS963 Antibody

Phosphosite-specific rabbit polyclonal antibody for KCC2 (SLC12A5). This phosphoserine-site antibody also cross-reacts with phosphothreonine and phosphotyrosine substitutions and weakly with a serine substitution 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 12 member 5
Protein Alias:	Electroneutral potassium-chloride cotransporter 2; Erythroid K-Cl cotransporter 2; KCC2; KIAA1176; Neuronal K-Cl cotransporter; S12A5; Solute carrier family 12 (potassium-chloride transporter) member 5; Solute carrier family 12, 5
UniProt ID:	Q9H2X9
Protein Molecular Mass:	126,184 Da (1139 AA; Q9H2X9-1); 123,511 Da (1116 AA; Q9H2X9-2)

Immunogen

Antibody Immunogen Source:	Synthetic phosphopeptide patterned after human Kv4.2
Antibody Immunogen Sequence:	SRG(pS)IRR(β A)C
Antibody Immunogen Description:	Corresponds to amino acid residues S960 to R966. The effect of KCC2 S963 phosphorylation is unclear. This is one of the major <i>in vivo</i> site of phosphorylation of the KCC2 based on ≥ 7 mass spectrometry reported recorded 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 multi-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 μ g
Antibody Concentration:	1 mg/ml
Storage Buffer:	Phosphate buffered saline pH 7.4, 0.05% Thimerosal
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 Rat Mouse Platypus 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