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PRODUCT DATASHEET

Anti-Potassium Chloride Cotransporter (KCC2) (Ser940) Antibody

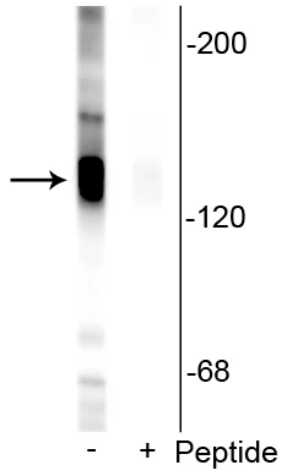
phosphosolutions ANTIBODIES THAT WORK Pooled Serum

Product Details

Available Variants	100 µL (SKU:p1551-940) 25 µL (SKU:p1551-940t)
Conjugate	Unconjugated
Isotype	IgG
Gene Name	KCC2
Host Species	Rabbit
Format	Antigen Affinity Purified from Pooled Serum
Physical State	Liquid
Buffer	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Production Notes	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.
Applications	ELISA, IP, WB
Dilution Ranges	WB: 1:1000 WB Brain: 1:1000 IP: 40ul of antibody per 1mg lysate
Species Reactivity	Rat
Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser940 of rat KCC2, conjugated to keyhole limpet hemocyanin (KLH).
Specificity	Specific for endogenous levels of the ~135 kDa KCC2 protein phosphorylated at Ser940. Immunolabeling is blocked by preadsorption with the phosphopeptide used as antigen, but not by the corresponding non-phosphopeptide.
Molecular Weight	135 kDa

Quality Control	Western blots performed on each lot.
Storage	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C.
Antibody Registry ID	AB_2492213
UniProt ID	Q63633 UniProt Summary: Mediates electroneutral potassium-chloride cotransport in mature neurons and is required for neuronal Cl(-) homeostasis (PubMed:12106695). As major extruder of intracellular chloride, it establishes the low neuronal Cl(-) levels required for chloride influx after binding of GABA-A and glycine to their receptors, with subsequent hyperpolarization and neuronal inhibition (By similarity). Involved in the regulation of dendritic spine formation and maturation (PubMed:24668262). {ECO:0000250|UniProtKB:Q63633, ECO:0000269|PubMed:12106695, ECO:0000269|PubMed:24668262}.
Shipping	Blue Ice
Expiration	After date of receipt, stable for at least 1 year at -20°C.
Usage Statement	For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.
Expected Reactivity	Bovine, Canine, Non-Human Primate, Zebrafish
Post Translational Modification Type	Phosphorylated
Post Translational Modification Residue	Ser940
NCBI Gene ID	171373

Product Images



Western blot of rat hippocampal lysate showing specific labeling of the ~135 kDa KCC2 protein phosphorylated at Ser940 in the first lane (-). Immunolabeling is blocked by preadsorption with the phosphopeptide used as antigen in the second lane (+), but not by the corresponding non-phosphopeptide (not shown).