



NCKX1 Monoclonal Antibody

Catalog No	YP-mAb-16478
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	SLC24A1
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC24A1. AA range:154-203
Specificity	NCKX1 Monoclonal Antibody detects endogenous levels of NCKX1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CSNB1D;HsT17412;KIAA72;Na(+)/K(+)/Ca(2+) exchange protein 1;Na(+)/K(+)/Ca(2+)-exchange protein 1;NCKX;NCKX1;NCKX1_HUMAN;Retinal rod Na Ca+K exchanger;Retinal rod Na+/Ca+/K+ exchanger;Retinal rod Na-Ca+K exchanger;RODX;Slc24a1;Sodium/potassium/calcium exchanger 1;Solute carrier family 24 (sodium/potassium/calcium exchanger) member 1;Solute carrier family 24 member 1;KIAA0702
Observed Band	125kD
Calculated Molecular Weight	125kD
Cell Pathway	Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Expressed in the retina, particularly in the inner segment, outer and inner nuclear layers, and ganglion cell layer.
Function	function:Critical component of the visual transduction cascade, controlling the calcium concentration of outer segments during light and darkness. Light causes a rapid lowering of cytosolic free calcium in the outer segment of both retinal rod and cone photoreceptors and the light-induced lowering of calcium is caused by extrusion via this protein which plays a key role in the process of light adaptation. Transports 1 Ca(2+) and 1 K(+) in exchange for 4 Na(+).,PTM:The



uncleaved signal sequence is required for efficient membrane targeting and proper membrane integration.,similarity:Belongs to the sodium/potassium/calcium exchanger family. SLC24A subfamily.,tissue specificity:Found only in the outer segments of retinal rod photoreceptors.,

Background

This gene encodes a member of the potassium-dependent sodium/calcium exchanger protein family. The encoded protein plays an important role in sodium/calcium exchange in retinal rod and cone photoreceptors by mediating the extrusion of one calcium ion and one potassium ion in exchange for four sodium ions. Mutations in this gene may play a role in congenital stationary night blindness. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Dec 2011],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

