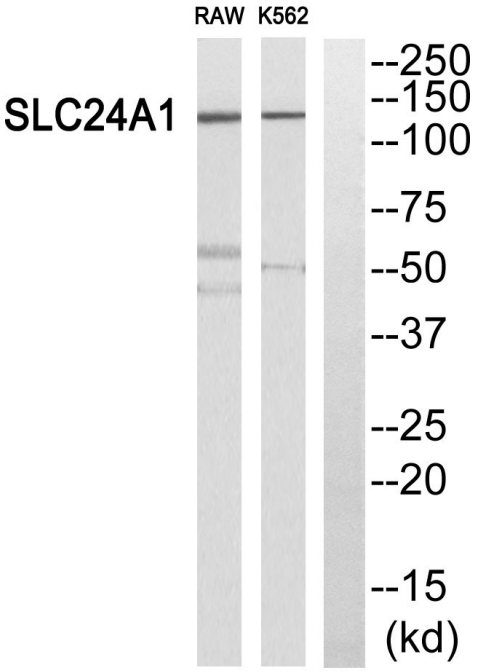
NCKX1 Polyclonal Antibody

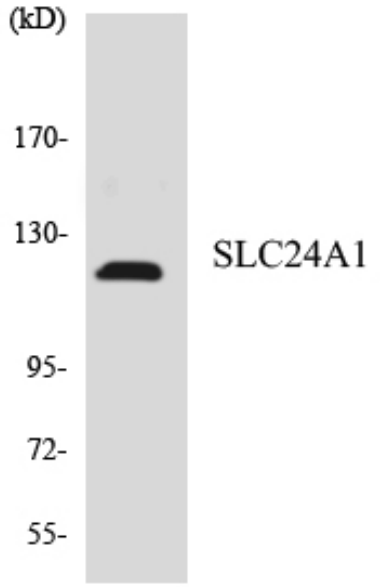
Catalog No	YP-Ab-16478
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB;ELISA
Gene Name	SLC24A1
Protein Name	Sodium/potassium/calcium exchanger 1
Immunogen	The antiserum was produced against synthesized peptide derived from human SLC24A1. AA range:154-203
Specificity	NCKX1 Polyclonal Antibody detects endogenous levels of NCKX1 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SLC24A1; KIAA0702; NCKX1; Sodium/potassium/calcium exchanger 1; Na(+)/K(+)/Ca(2+)-exchange protein 1; Retinal rod Na-Ca+K exchanger
Observed Band	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



Western blot analysis of SLC24A1 Antibody. The lane on the right is blocked with the SLC24A1 peptide.



Western blot analysis of the lysates from HepG2 cells using SLC24A1 antibody.