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Anti-NCKX1 Antibody

Catalog # AP53719

Product Information

Application	WB, IF
Primary Accession	O60721
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	121374

Additional Information

Gene ID	9187
Other Names	KIAA0702; NCKX1; Sodium/potassium/calcium exchanger 1; Na(+)/K(+)/Ca(2+)-exchange protein 1; Retinal rod Na-Ca+K exchanger; Solute carrier family 24 member 1
Target/Specificity	Recognizes endogenous levels of NCKX1 protein.
Dilution	WB~~1/500 - 1/1000 IF~~1/50 - 1/200
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

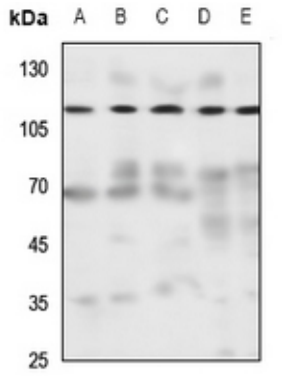
Protein Information

Name	SLC24A1 {ECO:0000303|PubMed:20850105, ECO:0000312|HGNC:HGNC:10975}
Function	Calcium, potassium:sodium antiporter that transports 1 Ca(2+) and 1 K(+) in exchange for 4 Na(+) (PubMed:26631410). Critical component of the visual transduction cascade, controlling the calcium concentration of outer segments during light and darkness (PubMed:20850105). 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 (PubMed:20850105).
Cellular Location	Cell membrane; Multi-pass membrane protein
Tissue Location	Expressed in the retina, particularly in the inner segment, outer and inner nuclear layers, and ganglion cell layer

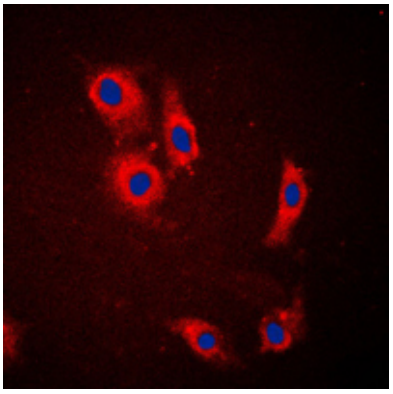
Background

Rabbit polyclonal antibody to NCKX1

Images



Western blot analysis of NCKX1 expression in Hela (A), H446 (B), H1688 (C), mouse testis (D), rat testis (E) whole cell lysates.



Immunofluorescent analysis of NCKX1 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).