NCKX1 (E-6): sc-393400

BACKGROUND
NCKX1, also designated solute carrier family 24, member 1 (SLC24A1) or sodium/calcium/potassium exchanger 1, belongs to a family of potassium-dependent sodium/calcium exchangers. Members of this group of proteins contain two large hydrophilic loops and two sets of multiple transmembrane-spanning segments. One intron in the 5′ untranslated region and 8 within the coding region of the NCKX1 gene have been identified; exon length varies from 54 to 2,037 bp. Human NCKX1 encodes a protein of 1,081 amino acids that shows 64% overall identity with the bovine protein. The two sets of presumed transmembrane domains and their short connecting loops show 94% identity with that of the bovine, while the extracellular loop at the amino terminus is only 59% identical.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: SLC24A1 (human) mapping to 15q22.31; SLC24A1 (mouse) mapping to 9 C.

SOURCE
NCKX1 (E-6) is a mouse monoclonal antibody raised against amino acids 94-380 mapping near the N-terminus of NCKX1 of human origin.

PRODUCT
Each vial contains 200 µg IgG κ kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

NCKX1 (E-6) is available conjugated to agarose (sc-393400 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-393400 HRP), 200 µg/ml, for WB, IHC(PE) and ELISA; to either phycocyanin (sc-393400 PE), fluorescein (sc-393400 FITC), Alexa Fluor® 488 (sc-393400 AF488), Alexa Fluor® 546 (sc-393400 AF546), Alexa Fluor® 594 (sc-393400 AF594) or Alexa Fluor® 647 (sc-393400 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FC; and to either Alexa Fluor® 680 (sc-393400 AF680) or Alexa Fluor® 790 (sc-393400 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

APPLICATIONS
NCKX1 (E-6) is recommended for detection of NCKX1 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for NCKX1 siRNA (h): sc-61158, NCKX1 siRNA (m): sc-61159, NCKX1 shRNA Plasmid (h): sc-61158-SH, NCKX1 shRNA Plasmid (m): sc-61159-SH, NCKX1 shRNA (h) Lentiviral Particles: sc-61158-V and NCKX1 shRNA (m) Lentiviral Particles: sc-61159-V.

The Molecular Weight of NCKX1: 130 kDa.

RECOMMENDED SUPPORT REAGENTS
To ensure optimal results, the following support reagents are recommended:

DATA
NCKX1 (E-6): sc-393400. Western blot analysis of NCKX1 expression in human platelet extract (A). Y79 (B), ARPE-19 (C) and MEG-01 (D) whole cell lysates and mouse eye (E) and rat eye (F) tissue extracts.

SELECT PRODUCT CITATIONS

STORAGE
Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE
For research use only, not for use in diagnostic procedures.