



**Anti-NCKX4, NeuroMab clone N414/25**

Immunogen:

Fusion protein amino acids 246-424 (third intracellular loop) of human NCKX4 isoform 3 (also known as Sodium/potassium/calcium exchanger 4, Na(+)/K(+)/Ca(2+)-exchange protein 4, Solute carrier family 24 member 4 and SLC24A4, accession number Q8NFF2-3)

Human: 90% identity with isoform 1 (179/198 amino acids identical)

Mouse: 89% identity with isoform 2 and 81% identity with isoform 1 (161/179 and 161/198 amino acids identical)

Rat: 81% identity (161/198 amino acids identical)

<40% identity with other NCKX proteins

Monoclonal antibody info:

Mouse strain: Balb/C

Myeloma cell: SP2/0

Mouse Ig Isotype: IgG2b

NeuroMab Applications:

Immunoblot, Immunocytochemistry and Immunohistochemistry

Species Reactivity: human, rat

Does not cross-react with NCKX2 or NCKX3

MW: 60 kDa

Top right: adult rat brain membrane immunoblot

Top left: immunoblot against extracts of COS cells transiently transfected with Flag-tagged NCKX2, NCKX3 or NCKX4 plasmid and probed with N414/25 (left) or N52A/42 (right) TC supe.

Bottom right: adult rat hippocampus immunohistochemistry

Bottom left: immunoblot against membranes from wild-type (N4+/+) or NCKX4 knockout (N4-/-) mouse brains probed with N414/25 TC supe. Data courtesy of Sunita Sharma and Jonathan Lytton (University of Calgary).

