

NCK1 Rabbit mAb

Catalog No: #49743

Package Size: #49743-1 50ul #49743-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

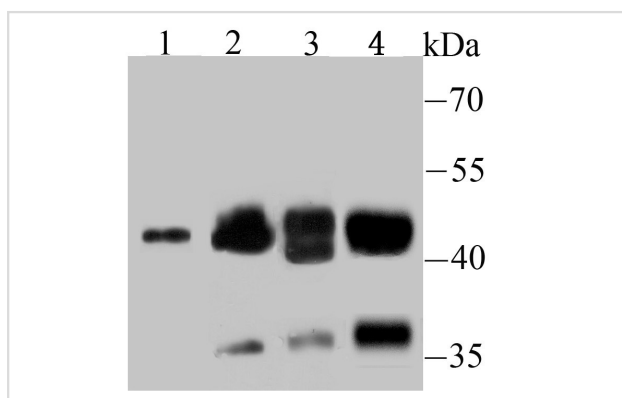
Description

Product Name	NCK1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	JU41-80
Purification	ProA affinity purified
Applications	WB,ICC,IF,IHC,IP,FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	Recombinant protein
Other Names	Cytoplasmic protein NCK1 antibody Melanoma Nck protein antibody MGC12668 antibody NCK 1 antibody NCK adaptor protein 1 antibody NCK alpha antibody NCK antibody NCK tyrosine kinase antibody Nck-1 antibody NCK1 antibody NCK1_HUMAN antibody NCKalpha antibody Non catalytic region of tyrosine kinase antibody SH2/SH3 adaptor protein NCK alpha antibody SH2/SH3 adaptor protein NCK-alpha antibody
Accession No.	Swiss-Prot#:P16333
Uniprot	P16333
GeneID	4690;
Calculated MW	43/35 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

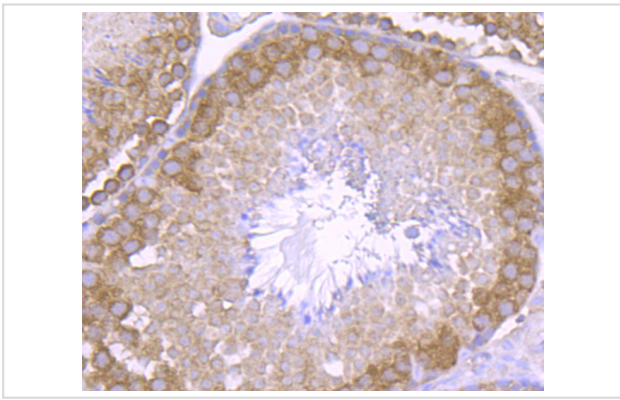
Application Details

WB: 1:500-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200IP: 1:10-1:50FC: 1:50-1:100

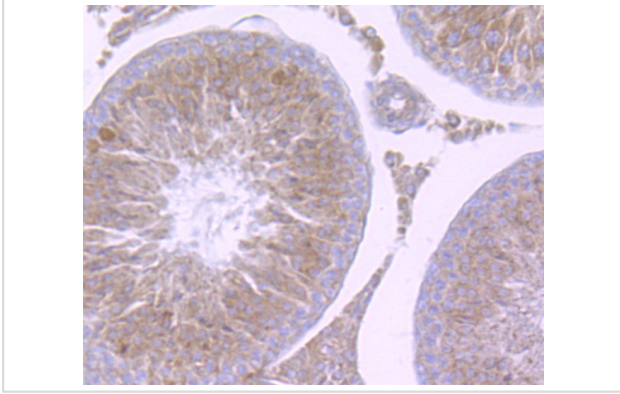
Images



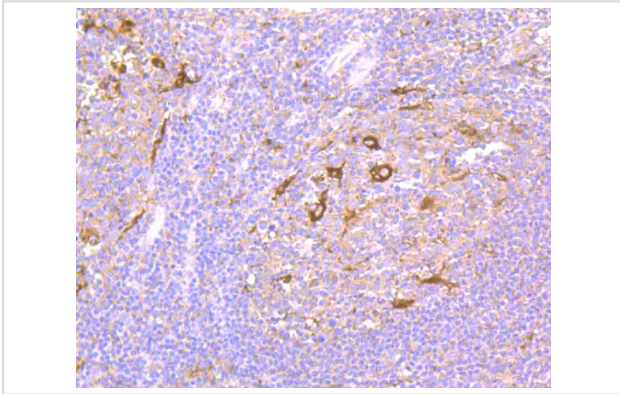
Western blot analysis of NCK1 on different lysates using anti-NCK1 antibody at 1/500 dilution. Positive control: Lane 1: HeLa Lane 1: NIH-3T3 Lane 2: Rat kidney tissue Lane 3: Mouse testis tissue



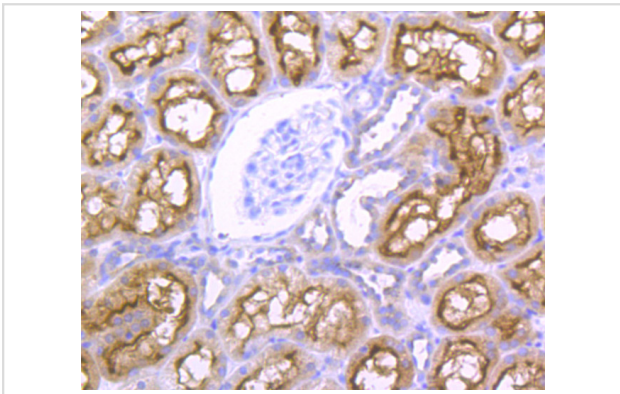
Immunohistochemical analysis of paraffin-embedded mouse testis tissue using anti-NCK1 antibody. Counter stained with hematoxylin.



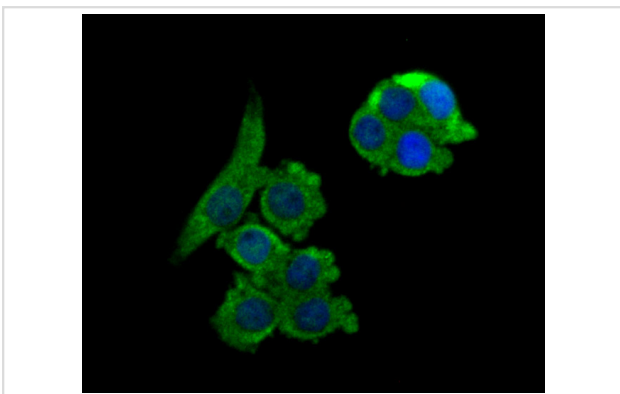
Immunohistochemical analysis of paraffin-embedded rat testis tissue using anti-NCK1 antibody. Counter stained with hematoxylin.



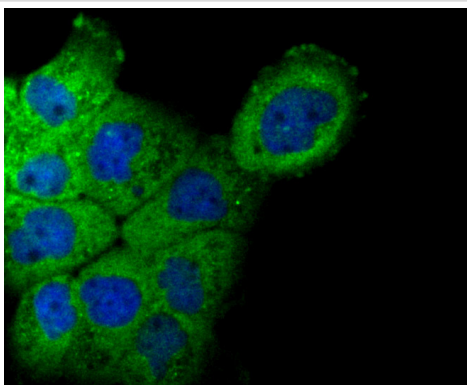
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-NCK1 antibody. Counter stained with hematoxylin.



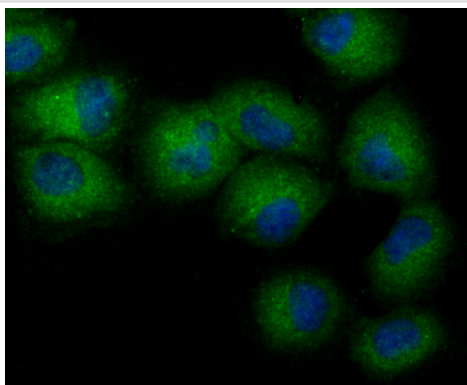
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-NCK1 antibody. Counter stained with hematoxylin.



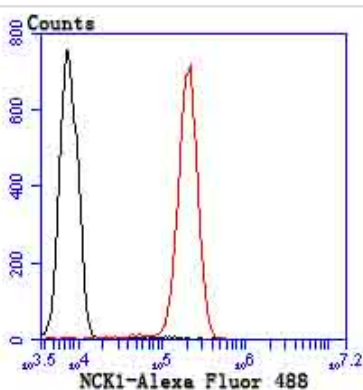
ICC staining NCK1 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining NCK1 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining NCK1 in HUVEC cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Jurkat cells with NCK1 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

The NCK family of SH2/SH3 adaptor proteins consists of two members, NCK1 (NCK α) and NCK2 (NCK β), which couple tyrosine kinase signaling, including the EGF and PDGF receptor-pathways, to downstream signaling proteins. Specifically, overexpression of Nck1 in NIH/3T3 cells decreases DNA synthesis stimulated by EGF. Furthermore, the SH2 domain of NCK2 inhibits EGF- and PDGF-induced DNA synthesis. The SH3 domain of NCK binds a proline-rich domain on PAK, a known actin cytoskeleton regulator. The NCK protein thus mediates the interaction between PAK and RAC. The NCK2 protein binds human PDGFR-b (Tyr 1009); overexpression of Nck2 inhibits PDGF-induced membrane ruffling and lamellipod formation. Various growth factor receptors, cell surface antigens and adhesion molecules phosphorylate mammalian NCK1 and NCK2. The human NCK1 and NCK2 genes map to chromosomes 3q22.3 and 2q12.2, respectively.

References

Note: This product is for in vitro research use only