Revision 1

#12778 Store at -20C

NCK1 (5B7) Mouse mAb

Cell Signaling TECHNOLOGY®

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB	H M R Hm Mk	Endogenous	47	Mouse IgG1	#P16333	4690

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.

Specificity / Sensitivity

NCK1 (5B7) Mouse mAb recognizes endogenous levels of total NCK1 protein.

Source / Purification

Monoclonal antibody is produced by immunizing animals with recombinant protein corresponding to a fragment of human NCK1 protein.

Background

NCK1 (also known as NCK or NCKα) is a broadly expressed oncogenic adapter protein consisting of three SH3 domains and one SH2 domain (1-3). NCK1 becomes phosphorylated upon activation of variety of cell surface receptors and is involved in actin cytoskeletal organization induced by many stimuli (4-6). NCK2 (also known as NCKβ), a homolog of NCK1, has an overlapping expression pattern and redundant functions with NCK1 (7).

Background References

1. Lehmann, J.M. et al. (1990) *Nucleic Acids Res.* 18, 1048.
2. Chou, M.M. et al. (1992) *Mol. Cell Biol.* 12, 5834-5842.
3. Li, W. et al. (1992) *Mol. Cell Biol.* 12, 5824-5833.
4. Verma, R. et al. (2006) *J. Clin. Invest.* 116, 1346-1359.
5. Rivera, G.M. et al. (2006) *Proc. Natl. Acad. Sci. USA* 103, 9536-9541.
6. Li, H. et al. (2006) *Biochem. Biophys. Res. Commun.* 349, 310-316.
7. Bladt, F. et al. (2003) *Mol. Cell Biol.* 23, 4586-4597.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

WB: Western Blotting

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse **GP:** Guinea Pig **Rab:** rabbit **All:** all species expected

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