Revision 1

SNIP/p140Cap Antibody

Store at -20C

#3757

Cell Signaling TECHNOLOGY®

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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	145	Rabbit	#Q9C0H9	80725

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 and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

SNIP/p140Cap Antibody detects endogenous levels of total SNIP/p140Cap protein.

Species predicted to react based on 100% sequence homology

Monkey

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human SNIP/p140Cap. Antibodies were purified by protein A and peptide affinity chromatography.

Background

SNIP (SNAP25-interacting protein)/p140Cap (p130Cas-associated protein) is a cytoskeleton-associated protein identified initially in rat as a protein interacting with the brain-specific synaptosome protein SNAP25 (1) and subsequently as interacting with the broadly expressed scaffold protein p130Cas (2). SNAP25, a presynaptic protein implicated in neurotransmitter secretion, membrane fusion and neurite outgrowth, is part of the SNARE complex that includes syntaxin and synaptobrevin/VAMP (3). SNIP-SNAP25 association is mediated by coiled-coil interactions (1). Overexpression of SNIP inhibits calcium-dependent exocytosis in PC12 cells (1). Human and mouse orthologs of SNIP, termed p140Cap, were subsequently identified through association with p130Cas, a substrate of v-Src and v-Crk that is tyrosine-phosphorylated in response to cell adhesion and mitogenic stimuli (2,4,5). Expression of p140Cap was observed in brain, testis and epithelial-rich tissues and may exist in various alternatively spliced, tissue-specific isoforms (2). p140Cap is also tyrosine-phosphoryalated in response to adhesion molecules and EGF treatment (2). Together these studies suggest a role for SNIP/p140Cap in controlling cell spreading, migration and neurosecretion.

Background References

1. Chin, L.S. et al. (2000) *J. Biol. Chem.* 275, 1191-1200.
2. Di Stefano, P. et al. (2004) *Mol. Biol. Cell* 15, 787-800.
3. Gerst, J.E. (1999) *Cell. Mol. Life Sci.* 55, 707-734.
4. Sakai, R. et al. (1994) *EMBO J.* 13, 3748-3756.
5. Defilippi, P. et al. (2006) *Trends Cell Biol.* 16, 257-263.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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Limited Uses

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