Background: SNIP (SNAP25-interacting protein)/p140Cap (p130Cas-associated protein) is a cytoskeletal 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 different alternatively-spliced, tissue-specific isoforms (2). p140Cap is also tyrosine phosphorylated 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.

Specificity/Sensitivity: SNIP/p140Cap Antibody detects endogenous levels of total SNIP/p140Cap protein.

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.

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:
Western blotting 1:1000
For application specific protocols please see the web page for this product at www.cellsignal.com. Please visit www.cellsignal.com for a complete listing of recommended companion products.

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