Spartin Antibody

For Research Use Only. Not For Use In Diagnostic Procedures.

Applications | Species Cross-Reactivity* | Molecular Wt. | Source | Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human spartin protein. Antibodies are purified by protein A and peptide affinity chromatography.

Background: Spastic paraplegia 20 (spartin) is encoded by the SPG20 gene in humans, which is altered in some individuals with an autosomal recessive form of hereditary spastic paraplegia known as Troyer syndrome (1,2). While Troyer syndrome research studies have yet to clearly describe the subcellular localization or function of spartin, additional work implicates spartin in endosomal trafficking, microtubule dynamics, and lipid homeostasis (3-5). This multifunctional protein is ubiquitously expressed within the nervous system and in non-neuronal tissues, and displays a diverse pattern of cellular localization (6). The SPG20 gene promoter is hypermethylated in many cases of colorectal cancer, which results in decreased spartin expression and cytokinesis arrest. This suggests that spartin expression and methylation state could be a promising biomarker for colorectal tumors (7).

Specificity/Sensitivity: Spartin Antibody recognizes endogenous levels of total spartin protein.

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.

Recommended Antibody Dilutions: Western blotting 1:1000

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

For product specific protocols please see the web page for this product at www.cellsignal.com.

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