SPG20 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPG20, Polyclonal Antibody
Full Product Name	SPG20 Rabbit Polyclonal Antibody
Product Gene Name	anti-SPG20 antibody
Product Synonym Gene Name	KIAA0610, TAHCCP1
Product Synonym Names	BH6842; Spartin (Spastic paraplegia 20 protein)(Trans-activated by hepatitis C virus core protein 1)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of human SPG20
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	72,833 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (36875775..36944317, complement). Location: 13q13.3
OMIM	275900
3D Structure	ModBase 3D Structure for Q8N0X7
Immunogen	Synthesized peptide derived from human SPG20
Modification	Unmodified/Total
Applications Tested/Suitable for anti-SPG20 antibody	Western Blot (WB)
Application Notes for anti-SPG20 antibody	WB: 1:1000-2000
Related Product Information for anti-SPG20 antibody	MBS9517106 is an antibody targeting SPG20. Also known as SPG20 Rabbit Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-SPG20 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPG20. It may not necessarily be applicable to this product.

NCBI GI #	214830187
NCBI GeneID	23111
NCBI Accession #	NP_001135768.1

UniProt Primary Accession #	Q8N0X7
UniProt Secondary Accession #	O60349; Q86Y67; Q9H1T2; Q9H1T3
UniProt Related Accession #	Q8N0X7
GenBank Nucleotide #	NM_001142296.1
NCBI Official Full Name	spartin
NCBI Official Synonym Full Names	spastic paraplegia 20 (Troyer syndrome)
NCBI Official Symbol	SPG20
NCBI Official Synonym Symbols	SPARTIN; TAHCCP1
UniProt Protein Name	Spartin
UniProt Synonym Protein Names	Spastic paraplegia 20 protein; Trans-activated by hepatitis C virus core protein 1
Protein Family	Spartin
UniProt Gene Name	SPG20
UniProt Synonym Gene Names	KIAA0610; TAHCCP1
UniProt Entry Name	SPG20_HUMAN
NCBI Protein Information	spartin; trans-activated by hepatitis C virus core protein 1
NCBI Summary for SPG20	This gene encodes a protein containing a MIT (Microtubule Interacting and Trafficking molecule) domain, and is implicated in regulating endosomal trafficking and mitochondria function. The protein localizes to mitochondria and partially co-localizes with microtubules. Stimulation with epidermal growth factor (EGF) results in protein translocation to the plasma membrane, and the protein functions in the degradation and intracellular trafficking of EGF receptor. Multiple alternatively spliced variants, encoding the same protein, have been identified. Mutations associated with this gene cause autosomal recessive spastic paraplegia 20 (Troyer syndrome). [provided by RefSeq, Nov 2008]
UniProt Comments for SPG20	SPG20: May be implicated in endosomal trafficking, or microtubule dynamics, or both. Defects in SPG20 are the cause of spastic paraplegia autosomal recessive type 20 (SPG20); also known as Troyer syndrome (TRS). Spastic paraplegia is a neurodegenerative disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Rate of progression and the severity of symptoms are quite variable. Initial symptoms may include difficulty with balance, weakness and stiffness in the legs, muscle spasms, and dragging the toes when walking. In some forms of the disorder, bladder symptoms (such as incontinence) may appear, or the weakness and stiffness may spread to other parts of the body. SPG20 is characterized by dysarthria, distal amyotrophy, mild developmental delay and short stature. Protein type: Unknown function Chromosomal Location of Human Ortholog: 13q13.3 Cellular Component: mitochondrial outer membrane; cytoplasm; plasma membrane; lipid particle; synapse; midbody Molecular Function: protein binding; ubiquitin protein ligase binding Biological Process: regulation of mitochondrial membrane potential; negative regulation of collateral sprouting in the absence of injury; cell division; neuromuscular process; abscission; negative regulation of BMP signaling pathway Disease: Spastic Paraplegia 20, Autosomal Recessive
Research Articles on SPG20	**1.** The study reveals that hypermethylation in Spastic paraplegia-20 promoter is a highly specific and sensitive biomarker for screening colorectal cancer in stool samples as a noninvasive method.
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