

# SPG20/Spartin Rabbit pAb

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Catalog # AP56779

## Product Information

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<b>Application</b>	IHC-P, IHC-F, IF
<b>Primary Accession</b>	<a href="#">Q8N0X7</a>
<b>Predicted</b>	Human, Mouse, Rat, Rabbit
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	72833
<b>Physical State</b>	Liquid
<b>Immunogen</b>	KLH conjugated synthetic peptide derived from human SPG20/Spartin 131-230/666
<b>Epitope Specificity</b>	
<b>Isotype</b>	IgG
<b>Purity</b>	affinity purified by Protein A
<b>Buffer</b>	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
<b>SIMILARITY</b>	Contains 1 MIT domain.
<b>SUBUNIT</b>	Interacts with ITCH and WWP1.
<b>DISEASE</b>	Interacts with ITCH and WWP1.
<b>Important Note</b>	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
<b>Background Descriptions</b>	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]

## Additional Information

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<b>Gene ID</b>	23111
<b>Other Names</b>	Spartin, Spastic paraplegia 20 protein, Trans-activated by hepatitis C virus core protein 1, SPART ( <a href="#">HGNC:18514</a> )
<b>Dilution</b>	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500
<b>Storage</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## Protein Information

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<b>Name</b>	SPART ( <a href="#">HGNC:18514</a> )
<b>Function</b>	Lipophagy receptor that plays an important role in lipid droplet (LD) turnover in motor neurons (PubMed: <a href="#">37443287</a> ). Localizes to LDs and interacts with components of the autophagy machinery, such as MAP1LC3A/C proteins to deliver LDs to autophagosomes for degradation via lipophagy (PubMed: <a href="#">37443287</a> ). Lipid transfer protein required for lipid droplet degradation, including by lipophagy (PubMed: <a href="#">38190532</a> ). Can bind and transfer all lipid species found in lipid droplets, from phospholipids to triglycerides and sterol esters but the direction of lipid transfer by spartin and its cargos are unknown (PubMed: <a href="#">38190532</a> ). May be implicated in endosomal trafficking, or microtubule dynamics, or both. Participates in cytokinesis (PubMed: <a href="#">20719964</a> ).
<b>Cellular Location</b>	Cytoplasm. Midbody. Lipid droplet Note=Transiently associated with endosomes (PubMed:19580544) Colocalized with IST1 to the ends of Flemming bodies during cytokinesis (PubMed:20719964).
<b>Tissue Location</b>	Ubiquitously expressed, with highest levels of expression detected in adipose tissue

## Background

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