

Rabbit anti-Human, Rat SPART Polyclonal Antibody | anti-SPART antibody

Anti-SPART Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126659	Rabbit	Human, Rat	ELISA, Flow Cytometry, Functional Assay, Western Blot

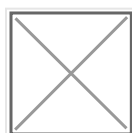
PRODUCT SYNONYMS

SPART; Polyclonal Antibody; Anti-SPART Antibody Picoband; anti-SPART antibody

PRODUCT SPECIFICATIONS

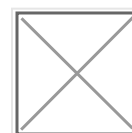
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SPART antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human SPART recombinant protein (Position: H205-V631).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of THP-1 cells using anti-SPART antibody (AAA126659). Overlay histogram showing THP-1 cells stained with AAA126659 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SPART Antibody (AAA126659, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of SPART using anti-SPART antibody (AAA126659). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human HEK293 whole cell lysates, Lane 2: human Hela whole cell lysates, Lane 3: rat brain tissue lysates, Lane 4: rat C6 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SPART antigen affinity purified polyclonal antibody (#AAA126659) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SPART at approximately 78 kDa. The expected band size for SPART is at 73 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SPART antibody	Spartin is a protein that in humans is encoded by the SPG20 gene. 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).
Product Categories/Family for anti-SPART antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	214830187
NCBI GeneID	23111
NCBI Accession #	NP_001135768.1
NCBI GenBank Nucleotide #	NM_001142296.1
UniProt Accession #	Q8N0X7; O60349; Q86Y67; Q9H1T2; Q9H1T3
Molecular Weight	72,833 Da
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
NCBI Protein Information	spartin; trans-activated by hepatitis C virus core protein 1
UniProt Protein Name	Spartin
UniProt Gene Name	SPG20
UniProt Synonym Gene Names	KIAA0610; TAHCCP1
UniProt Entry Name	SPG20_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/spart-antibody-flow-cytometry-western-blot-elisa/126659>