

Rabbit SEPT4/SEPTIN4 Polyclonal Antibody | anti-SEPTIN4 antibody

Anti-SEPT4/SEPTIN4 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126552	Rabbit	Human, Mouse, Rat	Western Blot, Flow Cytometry, Functional Assay, ELISA

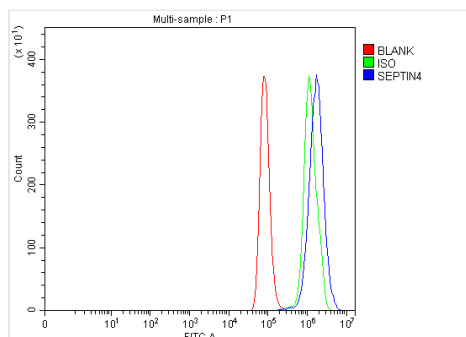
PRODUCT SYNONYMS

SEPT4/SEPTIN4; Polyclonal Antibody; Anti-SEPT4/SEPTIN4 Antibody Picoband; anti-SEPTIN4 antibody

PRODUCT SPECIFICATIONS

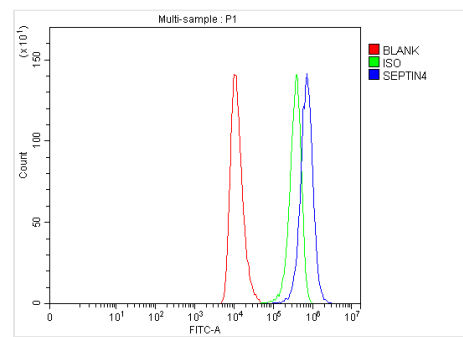
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-SEPTIN4 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human SEPT4/SEPTIN4 recombinant protein (Position: E18-K451).
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



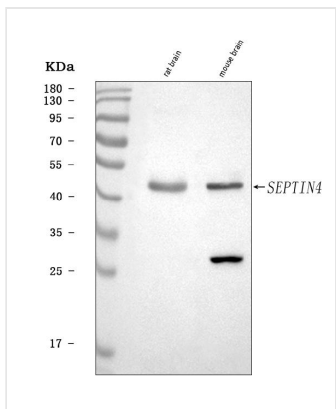
FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of HeLa cells using anti-SEPT4/SEPTIN4 antibody (AAA126552). Overlay histogram showing HeLa cells stained with AAA126552 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SEPT4/SEPTIN4 Antibody (AAA126552, 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.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HEL cells using anti-SEPT4/SEPTIN4 antibody (AAA126552). Overlay histogram showing HEL cells stained with AAA126552 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SEPT4/SEPTIN4 Antibody (AAA126552, 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 SEPT4/SEPTIN4 using anti-SEPT4/SEPTIN4 antibody (AAA126552). 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: rat brain tissue lysates, Lane 2: mouse brain tissue lysates. red 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-SEPT4/SEPTIN4 antigen affinity purified polyclonal antibody (#AAA126552) 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 SEPT4/SEPTIN4 at approximately 50 kDa. The expected band size for SEPT4/SEPTIN4 is at 50 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SEPTIN4 antibody	Septin 4 is a protein that in humans is encoded by the gene SEPTIN4. This gene is a member of the septin family of nucleotide binding proteins, originally described in yeast as cell division cycle regulatory proteins. Septins are highly conserved in yeast, Drosophila, and mouse, and appear to regulate cytoskeletal organization. Disruption of septin function disturbs cytokinesis and results in large multinucleate or polyploid cells. This gene is highly expressed in brain and heart. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. One of the isoforms (known as ARTS) is distinct; it is localized to the mitochondria, and has a role in apoptosis and cancer.
Product Categories/Family for anti-SEPTIN4 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	12024871
NCBI GeneID	5414
UniProt Accession #	O43236; Q6IAP3; Q9H315; Q9UM58; B2RD42; B3KXS9; B4DXC6; B4DXV5
Molecular Weight	32 kDa
NCBI Official Full Name	mitochondrial ARTS protein
NCBI Official Synonym Full Names	septin 4
NCBI Official Symbol	SEPT4
NCBI Official Synonym Symbols	H5; ARTS; MART; SEP4; CE5B3; PNUTL2; hucep-7; BRADEION; hCDCREL-2
NCBI Protein Information	septin-4; septin-M; CE5B3 beta; bradeion beta; brain protein H5; cerebral protein 7; peanut-like protein 2; cell division control-related protein 2; apoptosis-related protein in the TGF-beta signaling pathway
UniProt Protein Name	Septin-4
UniProt Gene Name	SEPT4
UniProt Synonym Gene Names	ARTS; PNUTL2; SEP4; ARTS; hCDCREL-2

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/sept4-septin4-antibody-western-blot-flow-cytometry-elisa/126552>