

Rabbit anti-Human DOCK180/DOCK1 Polyclonal Antibody | anti-DOCK1 antibody

Anti-DOCK180/DOCK1 Antibody Picoband

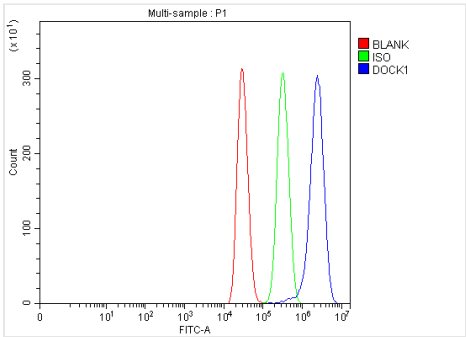
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA126308	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

DOCK180/DOCK1; Polyclonal Antibody; Anti-DOCK180/DOCK1 Antibody Picoband; anti-DOCK1 antibody

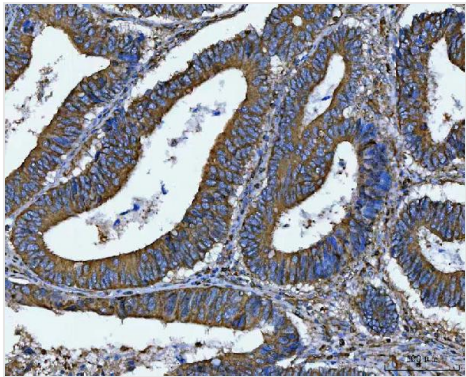
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
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-DOCK1 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human DOCK180/DOCK1 recombinant protein (Position: S100-T1732).
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.



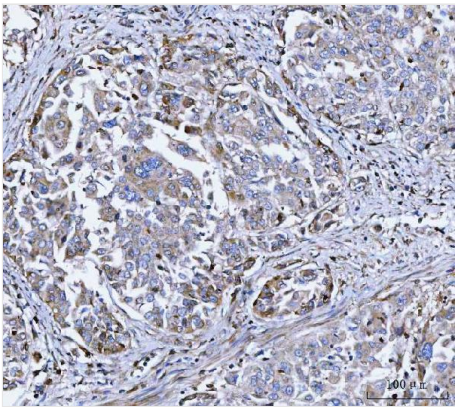
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of MCF-7 cells using anti-DOCK180/DOCK1 antibody (AAA126308).Overlay histogram showing MCF-7 cells stained with AAA126308 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DOCK180/DOCK1 Antibody (AAA126308, 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.



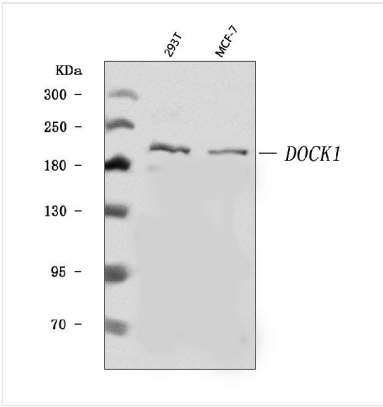
IHC (Immunohistochemistry)

Figure 2. IHC analysis of DOCK180/DOCK1 using anti-DOCK180/DOCK1 antibody (AAA126308).DOCK180/DOCK1 was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-DOCK180/DOCK1 Antibody (AAA126308) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of DOCK180/DOCK1 using anti-DOCK180/DOCK1 antibody (AAA126308).DOCK180/DOCK1 was detected in a paraffin-embedded section of human lung adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-DOCK180/DOCK1 Antibody (AAA126308) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of DOCK180/DOCK1 using anti-DOCK180/DOCK1 antibody (AAA126308).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 293T whole cell lysates,Lane 2: human MCF-7 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-DOCK180/DOCK1 antigen affinity purified polyclonal antibody (#AAA126308) 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 DOCK180/DOCK1 at approximately 215 kDa. The expected band size for DOCK180/DOCK1 is at 215 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-DOCK1 antibody

Dock180, (Dedicator of cytokinesis) also known as DOCK1, is a large (~180 kDa) protein involved in intracellular signalling networks. This gene encodes a member of the dedicator of cytokinesis protein family. Dedicator of cytokinesis proteins act as guanine nucleotide exchange factors for small Rho family G proteins. The encoded protein regulates the small GTPase Rac, thereby influencing several biological processes, including phagocytosis and cell migration. Overexpression of this gene has also been associated with certain cancers. Alternative splicing results in multiple transcript variants.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4503355
NCBI GeneID	1793
NCBI Accession #	NP_001371.1
NCBI GenBank Nucleotide #	NM_001380.3
UniProt Accession #	Q14185; A9Z1Z5
Molecular Weight	215,346 Da
NCBI Official Full Name	dedicator of cytokinesis protein 1
NCBI Official Synonym Full Names	dedicator of cytokinesis 1
NCBI Official Symbol	DOCK1
NCBI Official Synonym Symbols	ced5; DOCK180
NCBI Protein Information	dedicator of cytokinesis protein 1; DOWnstream of CrK; dedicator of cyto-kinesis 1; 180 kDa protein downstream of CRK
UniProt Protein Name	Dedicator of cytokinesis protein 1
UniProt Gene Name	DOCK1
UniProt Synonym Gene Names	DOCK180
UniProt Entry Name	DOCK1_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://www.aaabiotech.com/polyclonal/dock180-dock1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/126308>