

## Anti-DOCK4 Antibody Picoband™

Catalog Number: A05916-1

### About DOCK4

This gene is a member of the dedicator of cytokinesis (DOCK) family and encodes a protein with a DHR-1 (CZH-1) domain, a DHR-2 (CZH-2) domain and an SH3 domain. This membrane-associated, cytoplasmic protein functions as a guanine nucleotide exchange factor and is involved in regulation of adherens junctions between cells. Mutations in this gene have been associated with ovarian, prostate, glioma, and colorectal cancers. Alternatively spliced variants which encode different protein isoforms have been described, but only one has been fully characterized.

### Overview

Product Name	Anti-DOCK4 Antibody Picoband™
Reactive Species	Human, Rat
Description	Boster Bio Anti-DOCK4 Antibody Picoband™ catalog # A05916-1. Tested in ELISA, Flow Cytometry, IHC, WB applications. This antibody reacts with Human, Rat.
Application	ELISA, Flow Cytometry, IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q8N110

### Technical Details

Immunogen	E.coli-derived human DOCK4 recombinant protein (Position: K191-I1837).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG
Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.

Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

Western blot, 0.25-0.5 ug/ml, Human, Rat

Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human

Flow Cytometry, 1-3 ug/1x10<sup>6</sup> cells, Human

Direct ELISA, 0.1-0.5 ug/ml, Human

## Anti-DOCK4 Antibody Picoband™ (A05916-1) Images

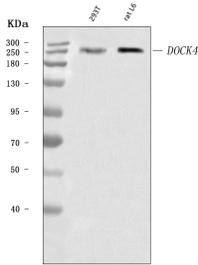


Figure 1. Western blot analysis of DOCK4 using anti-DOCK4 antibody (A05916-1).

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: rat L6 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-DOCK4 antigen affinity purified polyclonal antibody (Catalog # A05916-1) at 0.5 ug/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for DOCK4 at approximately 250 kDa. The expected band size for DOCK4 is at 225 kDa.



Figure 2. IHC analysis of DOCK4 using anti-DOCK4 antibody (A05916-1).

DOCK4 was detected in a paraffin-embedded section of human skeletal muscle 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-DOCK4 Antibody (A05916-1) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

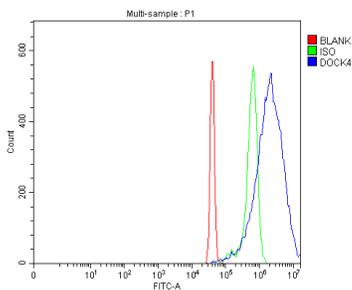


Figure 3. Flow Cytometry analysis of SiHa cells using anti-DOCK4 antibody (A05916-1).

Overlay histogram showing SiHa cells stained with A05916-1 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-DOCK4 Antibody (A05916-1, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C.

DyLight® 488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample (Red line) was also used as a control.

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