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Anti-NCKAP1 Picoband Antibody
Catalog # ABO10343

Specification

Anti-NCKAP1 Picoband Antibody - Product Information

Application	**WB**
Primary Accession	Q9Y2A7
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Nck-associated protein 1(NCKAP1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-NCKAP1 Picoband Antibody - Additional Information

Gene ID 10787

Other Names
Nck-associated protein 1, NAP 1, Membrane-associated protein HEM-2, p125Nap1, NCKAP1, HEM2, KIAA0587, NAP1

Calculated MW
128790 MW KDa

Application Details
Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Cell membrane ; Single-pass membrane protein ; Cytoplasmic side . Cell projection, lamellipodium membrane ; Single-pass membrane protein ; Cytoplasmic side . At the interface between the lamellipodial actin meshwork and the membrane. .

Tissue Specificity
Expressed in all tissues examined except peripheral blood leukocytes, with highest expression in brain, heart, and skeletal muscle.

Protein Name
Nck-associated protein 1

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
E.coli-derived human NCKAP1 recombinant protein (Position: S2-K201). Human NCKAP1 shares

98.5% and 98% amino acid (aa) sequence identity with mouse and rat NCKAP1, respectively.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-NCKAP1 Picoband Antibody - Protein Information

Name NCKAP1

Synonyms HEM2, KIAA0587, NAP1

Function
Part of the WAVE complex that regulates lamellipodia formation. The WAVE complex regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes.

Cellular Location
Cell membrane {ECO:0000250|UniProtKB:P28660}; Single-pass membrane protein {ECO:0000250|UniProtKB:P28660}; Cytoplasmic side {ECO:0000250|UniProtKB:P28660}. Cell projection, lamellipodium membrane {ECO:0000250|UniProtKB:P28660}; Single-pass membrane protein {ECO:0000250|UniProtKB:P28660}; Cytoplasmic side {ECO:0000250|UniProtKB:P28660}. Note=At the interface between the lamellipodial actin meshwork and the membrane {ECO:0000250|UniProtKB:P28660}

Tissue Location
Expressed in all tissues examined except peripheral blood leukocytes, with highest expression in brain, heart, and skeletal muscle. Expressed in cells of various brain regions including Purkinje cells and dentate nucleus of the cerebellum, CA4 region and dentate gyrus of the hippocampus, and in frontal gray and white matter (PubMed:28940097).

Anti-NCKAP1 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-NCKAP1 Picoband Antibody - Images

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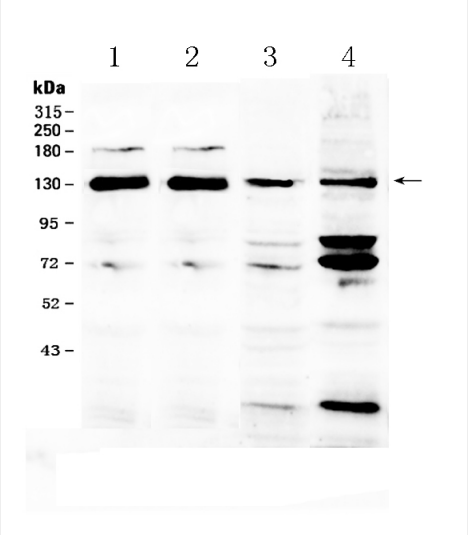

Figure 1. Western blot analysis of NCKAP1 using anti- NCKAP1 antibody (ABO10343). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, Lane 2: mouse brain tissue lysates, Lane 3: MCF-7 whole Cell lysates, Lane 4: 293T whole cell lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-NCKAP1 antigen affinity purified polyclonal antibody (Catalog # ABO10343) at 0.5 Î¼g/mL overnight at 4Â°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 1:10000 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 NCKAP1 at approximately 129KD. The expected band size for NCKAP1 is at 129KD.

Anti-NCKAP1 Picoband Antibody - Background

Nck-associated protein 1 is a protein that in humans is encoded by the NCKAP1 gene. By somatic cell hybrid analysis, the NCKAP1 gene was mapped to chromosome 2. NCKAP1 is a predicted type II transmembrane protein, with a C-terminal transmembrane domain. It was demonstrated that suppression of NCKAP1 expression using an antisense NCKAP1 oligonucleotide induced apoptosis of neuronal cells.