

Anti-NCKAP1 Picoband Antibody

Catalog # ABO10343

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.

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
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.
Source	Eukaryota
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 reconstitution, 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.

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).

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.

Images

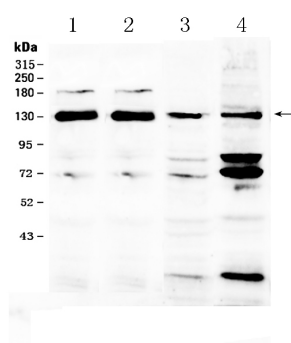


Figure 1. Western blot analysis of NCKAP1 using anti-NCKAP1 antibody (ABO10343). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: rat brain tissue 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 µg/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 1:10000 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.