

Anti-AKAP2 Picoband Antibody
Catalog # ABO10344**Specification**

Anti-AKAP2 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9Y2D5
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for A-kinase anchor protein 2(AKAP2) detection. Tested with WB in Human;Rat.

Reconstitution

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

Anti-AKAP2 Picoband Antibody - Additional Information

Gene ID 445815

Other Names

A-kinase anchor protein 2, AKAP-2, AKAP-KL, Protein kinase A-anchoring protein 2, PRKA2, AKAP2, KIAA0920, PRKA2

Calculated MW

94661 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Rat

Protein Name

A-kinase anchor protein 2

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human AKAP2 (813-852aa ETHSKRRRERMDDSSVLEATRVNRRKSALALRWEAGIYAN), identical to the related mouse and rat sequences.

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.

Anti-AKAP2 Picoband Antibody - Protein Information

Name PALM2AKAP2 ([HGNC:33529](#))

Function

Binds to regulatory subunit (RII) of protein kinase A. May be involved in establishing polarity in signaling systems or in integrating PKA-RII isoforms with downstream effectors to capture, amplify and focus diffuse, trans-cellular signals carried by cAMP. Binds to and modulates the structure of the actin cytoskeleton.

Cellular Location

Apical cell membrane {ECO:0000250|UniProtKB:O54931}; Lipid-anchor, GPI-like-anchor {ECO:0000250|UniProtKB:O54931}; Cytoplasmic side {ECO:0000250|UniProtKB:O54931}. Note=Accumulates near the inner, apical surface of highly polarized epithelium in tubules of nephrons {ECO:0000250|UniProtKB:O54931}

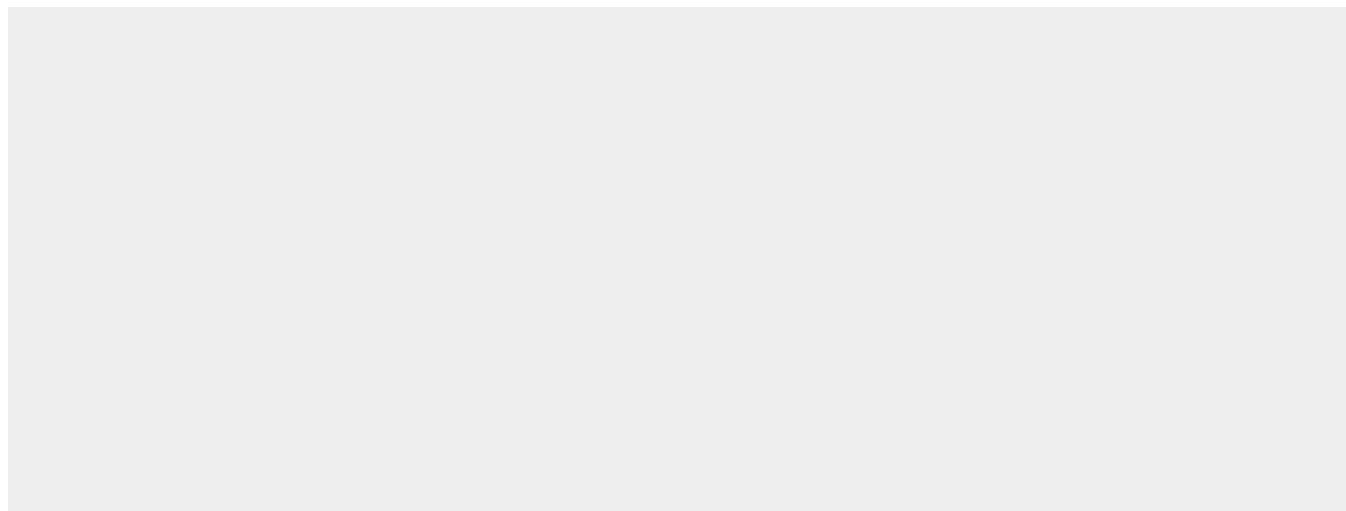
Tissue Location

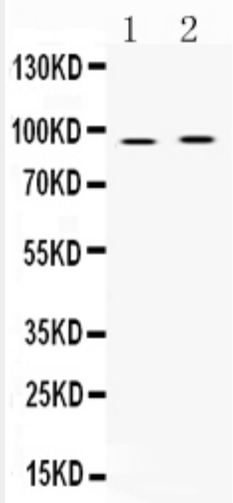
[Isoform 6]: Expressed in infantile heart and muscle, and fibroblasts.

Anti-AKAP2 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 Cytometry](#)
- [Cell Culture](#)

Anti-AKAP2 Picoband Antibody - Images



Western blot analysis of AKAP2 expression in rat cardiac muscle extract (lane 1) and HEPG2 whole cell lysates (lane 2). AKAP2 at 95KD was detected using rabbit anti-AKAP2 Antigen Affinity purified polyclonal antibody (Catalog # ABO10344) at 0.5 μ g/mL. The blot was developed using chemiluminescence (ECL) method .

Anti-AKAP2 Picoband Antibody - Background

A-kinase anchor protein 2 is an enzyme that in humans is encoded by the AKAP2 gene. It is mapped to 9q31.3. The protein encoded by this gene binds to the regulatory subunit of protein kinase A and is found associated with the actin cytoskeleton. The encoded protein mediates signals carried by cAMP and may be involved in creating polarity in certain signaling processes. Three transcript variants encoding different isoforms have been found for this gene.