

Anti-AKAP2 Picoband Antibody

Catalog # ABO10344

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.

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	122071
Application Details	Western blot, 0.1-0.5 µg/ml, Human, Rat
Source	Eukaryota
Protein Name	A-kinase anchor protein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human AKAP2 (813-852aa ETHKSKRRERMDDSSVLEATRVNRRKSALALRWEAGIYAN), 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.

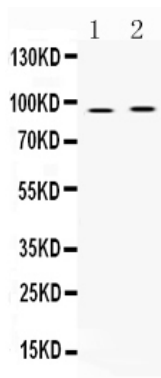
Protein Information

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.

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.

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 .

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