

AKAP9 / YOTIAO Antibody (N-Term)
Peptide-affinity purified goat antibody
Catalog # AF2917a**Specification**

AKAP9 / YOTIAO Antibody (N-Term) - Product Information

Application	E
Primary Accession	Q99996
Other Accession	NP_005742.4 , NP_671714.1 , 10142
Predicted	Human, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	452987

AKAP9 / YOTIAO Antibody (N-Term) - Additional Information**Gene ID** 10142**Other Names**

A-kinase anchor protein 9, AKAP-9, A-kinase anchor protein 350 kDa, AKAP 350, hgAKAP 350, A-kinase anchor protein 450 kDa, AKAP 450, AKAP 120-like protein, Centrosome- and Golgi-localized PKN-associated protein, CG-NAP, Protein hyperion, Protein kinase A-anchoring protein 9, PRKA9, Protein yotiao, AKAP9, AKAP350, AKAP450, KIAA0803

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AKAP9 / YOTIAO Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

AKAP9 / YOTIAO Antibody (N-Term) - Protein Information**Name** AKAP9**Synonyms** AKAP350, AKAP450, KIAA0803**Function**

Scaffolding protein that assembles several protein kinases and phosphatases on the centrosome and Golgi apparatus. Required to maintain the integrity of the Golgi apparatus (PubMed:10202149, PubMed:15047863). Required for microtubule nucleation at the cis-side of the Golgi apparatus (PubMed:15047863, PubMed:19242490). Required for association of the centrosomes with the poles of the bipolar mitotic spindle during metaphase (PubMed:25657325). In complex with PDE4DIP isoform 13/MMG8/SMYLE, recruits CAMSAP2 to the Golgi apparatus and tethers non-centrosomal minus-end microtubules to the Golgi, an important step for polarized cell movement (PubMed:27666745, PubMed:28814570). In complex with PDE4DIP isoform 13/MMG8/SMYLE, EB1/MAPRE1 and CDK5RAP2, contributes to microtubules nucleation and extension also from the centrosome to the cell periphery (PubMed:29162697).

Cellular Location

Golgi apparatus. Cytoplasm Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Note=Cytoplasmic in parietal cells (PubMed:9915845). Recruited to the Golgi apparatus by GM130/GOLGA2 (PubMed:25657325). Localization at the centrosome versus Golgi apparatus may be cell line-dependent. In SKBr3 and HEK293F cells, exclusively located at the centrosome (PubMed:29162697). In HeLa, MDA-MB231 and RPE-1 cells, detected at the Golgi apparatus (PubMed:25217626, PubMed:29162697). In SK-BR-3 cells, recruited to the centrosome in the presence of CDK5RAP2 (PubMed:29162697)

Tissue Location

Widely expressed (PubMed:10202149). Isoform 4: Highly expressed in skeletal muscle and in pancreas (PubMed:9482789)

AKAP9 / YOTIAO Antibody (N-Term) - 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](#)

AKAP9 / YOTIAO Antibody (N-Term) - Images

AKAP9 / YOTIAO Antibody (N-Term) - Background

This antibody is expected to recognize isoforms 2 and 3 (NP_005742.4; NP_671714.1)

AKAP9 / YOTIAO Antibody (N-Term) - References

Association of a common AKAP9 variant with breast cancer risk: a collaborative analysis. Frank B, Wiestler M, Kropp S, Hemminki K, Spurdle AB, Sutter C, Wappenschmidt B, Chen X, Beesley J, Hopper JL, Meindl A, Kiechle M, Slanger T, Bugert P, Schmutzler RK, Bartram CR, Flesch-Janys D, Mutschelknauss E, Ashton K, Salazar R, Webb E, Hamann U, Br J. Natl. Cancer Inst. 2008 Mar 100 (6): 437-42. PMID: 18334708