

AKAP1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50210**Specification**

AKAP1 Antibody - Product Information

Application	IF, WB
Primary Accession	Q92667
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	97,63,149(actual) KDa
Antigen Region	305-333

AKAP1 Antibody - Additional Information**Gene ID** 8165**Other Names**

A-kinase anchor protein 1, mitochondrial, A-kinase anchor protein 149 kDa, AKAP 149, Dual specificity A-kinase-anchoring protein 1, D-AKAP-1, Protein kinase A-anchoring protein 1, PRKA1, Spermatid A-kinase anchor protein 84, S-AKAP84, AKAP1, AKAP149, PRKA1

Dilution

IF~~1:100

WB~~ 1:1000

Format

Rabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions

-20°C

AKAP1 Antibody - Protein Information**Name** AKAP1 ([HGNC:367](#))**Synonyms** AKAP149, PRKA1**Function**

Binds to type I and II regulatory subunits of protein kinase A and anchors them to the cytoplasmic face of the mitochondrial outer membrane (By similarity). Involved in mitochondrial-mediated antiviral innate immunity (PubMed:31522117). Promotes translocation of NDUF51 into mitochondria to regulate mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) activity (By similarity).

Cellular Location

Mitochondrion outer membrane {ECO:0000250|UniProtKB:O08715}. Mitochondrion {ECO:0000250|UniProtKB:O08715}

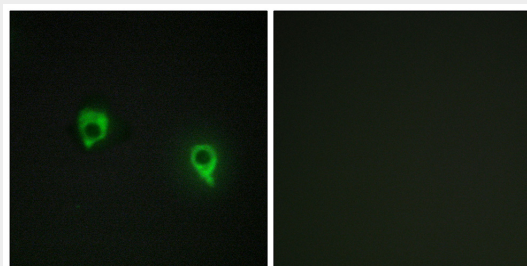
Tissue Location

Isoform 1 is detected in thymus, prostate, testis, ovary, colon and small intestine (PubMed:8769136). Isoform 2 is highly expressed in testis and detected at much lower levels in kidney, pancreas, liver, lung and brain (PubMed:7499250)

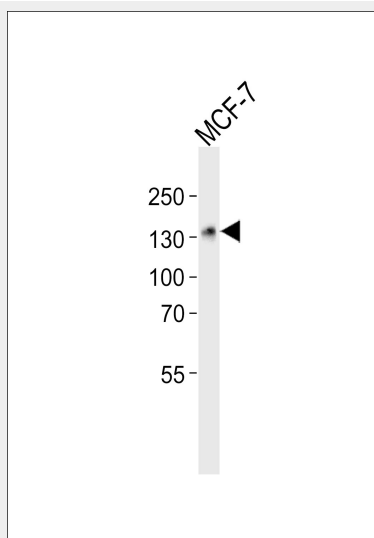
AKAP1 Antibody - Protocols

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](#)

AKAP1 Antibody - Images

Immunofluorescence analysis of COS7 cells, using AKAP1 antibody.



Western blot analysis of lysate from MCF-7 cell line, using AKAP1 Antibody(C11427). C11427 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary

antibody.Lysate at 35ug.

AKAP1 Antibody - Background

Binds to type I and II regulatory subunits of protein kinase A and anchors them to the cytoplasmic face of the mitochondrial outer membrane.

AKAP1 Antibody - References

Trendelenburg G.,et al.Biochem. Biophys. Res. Commun. 225:313-319(1996).
Lin R.-Y.,et al.J. Biol. Chem. 270:27804-27811(1995).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Hillman R.T.,et al.Genome Biol. 5:R8.1-R8.16(2004).