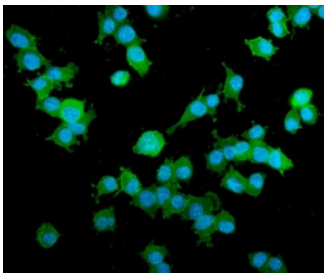
AKAP12 Antibody (RQ5698)

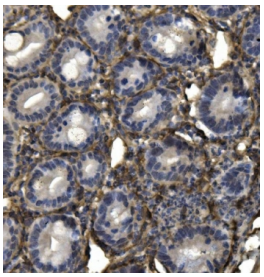
Catalog No.	Formulation	Size
RQ5698	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

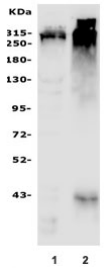
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q9WTQ5
Applications	Western blot: 0.5-1ug/ml Immunohistochemistry: 1-2ug/ml Flow cytometry: 1-3ug/million cells Direct ELISA: 0.1-0.5ug/ml
Limitations	This AKAP12 antibody is available for research use only.



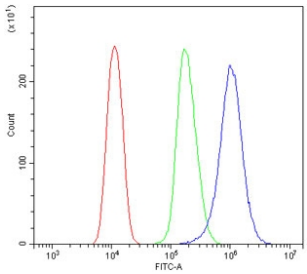
Immunofluorescent staining of FFPE mouse HEPA1-6 cells with AKAP12 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



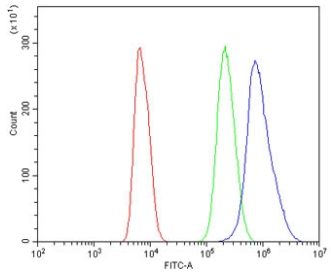
IHC staining of FFPE mouse intestine with AKAP12 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of mouse 1) brain and 2) ovary with AKAP12 antibody. Predicted molecular weight: ~191 kDa but can be seen at 250-305 kDa.



Flow cytometry testing of mouse HEPA1-6 cells with AKAP12 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AKAP12 antibody.



Flow cytometry testing of rat NRK cells with AKAP12 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= AKAP12 antibody.

Description

A-kinase anchor protein 12, also called AKAP250, is an enzyme that in humans is encoded by the AKAP12 gene. The A-kinase anchor proteins (AKAPs) are a group of structurally diverse proteins, which have the common function of binding to the regulatory subunit of protein kinase A (PKA) and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. The encoded protein is expressed in endothelial cells, cultured fibroblasts, and osteosarcoma cells. It associates with protein kinase A and C and phosphatase, and serves as a scaffold protein in signal transduction. This protein and RII PKA colocalize at the cell periphery. This protein is a cell growth-related protein. Antibodies to this protein can be produced by patients with myasthenia gravis. Alternative splicing of this gene results in two transcript variants encoding different isoforms.

Application Notes

Optimal dilution of the AKAP12 antibody should be determined by the researcher.

Immunogen

Recombinant mouse protein (amino acids E387-H1620) was used as the immunogen for the AKAP12 antibody.

Storage

After reconstitution, the AKAP12 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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