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RAI14 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP6233a

Specification

RAI14 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession	Q9P0K7
Other Accession	NP_056392

RAI14 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 26064

Other Names
Ankycorbin, Ankyrin repeat and coiled-coil structure-containing protein, Novel retinal pigment epithelial cell protein, Retinoic acid-induced protein 14, RAI14, KIAA1334, NORPEG

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP6233a was selected from the C-term region of human RAI14 . A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

RAI14 Antibody (C-term) Blocking Peptide - Protein Information

Name RAI14

Synonyms KIAA1334, NORPEG

Function
Plays a role in actin regulation at the ectoplasmic specialization, a type of cell junction specific to testis. Important for establishment of sperm polarity and normal spermatid adhesion. May also promote integrity of Sertoli cell tight junctions at the blood- testis barrier.

Cellular Location
Cytoplasm, cytoskeleton. Cytoplasm, cytoskeleton, stress fiber {ECO:0000250|UniProtKB:Q9EP71}. Cytoplasm, cell cortex {ECO:0000250|UniProtKB:Q5U312}. Cell junction {ECO:0000250|UniProtKB:Q5U312}. Nucleus Note=Associated with the cortical actin

cytoskeleton structures in terminal web and cell-cell adhesion sites (By similarity). Highly expressed at the ectoplasmic specialization, an actin-rich cell junction specific to the testis (By similarity). Predominantly nuclear in nonconfluent cells (PubMed:16729964). {ECO:0000250|UniProtKB:Q5U312, ECO:0000269|PubMed:16729964}

Tissue Location
Highly expressed in placenta, muscle, kidney and testis. Moderately expressed in heart, brain, lung, liver and intestine. Isoform 2 is widely expressed and expressed in fetal and adult testes, and spermatozoa.

RAI14 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

RAI14 Antibody (C-term) Blocking Peptide - Images

RAI14 Antibody (C-term) Blocking Peptide - Background

Retinoic acid plays a critical role in development, cellular growth, and differentiation and induces the expression of a variety of genes. RAI14 is expressed in retinal pigment epithelial cells, induced by all-trans-retinoic acid. Highest expression of RAI14 occurs in the placenta and testis. The predicted human RAI14 protein consists of 980 amino acids, and features 6 potential N-glycosylation sites, six ankyrin repeats and several coiled-coil helical domains. RAI14, which localizes to the cytoplasm, is also highly expressed in several human cancer cell lines. The precise cellular function of RAI14 remains to be determined.

RAI14 Antibody (C-term) Blocking Peptide - References

Kutty, R.K., et al., J. Biol. Chem. 276(4):2831-2840 (2001).