

**IQCG Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP5044b****Specification**

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**IQCG Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [Q9H095](#)**IQCG Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 84223**Other Names**

IQ domain-containing protein G, IQCG

**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.

**IQCG Antibody (C-term) Blocking Peptide - Protein Information****Name** IQCG**Synonyms** DRC9 {ECO:0000250|UniProtKB:A8HQ54}**Function**

Component of the nexin-dynein regulatory complex (N-DRC), a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Binds calmodulin when cellular Ca(2+) levels are low and thereby contributes to the regulation of calcium and calmodulin-dependent protein kinase IV (CAMK4) activity; contributes to the regulation of CAMK4 signaling cascades. Required for normal axoneme assembly in sperm flagella, normal sperm tail formation and for male fertility.

**Cellular Location**

Cytoplasm. Cell projection, cilium, flagellum {ECO:0000250|UniProtKB:Q80W32}. Cell projection, cilium {ECO:0000250|UniProtKB:Q80W32}. Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q80W32}. Cytoplasm, cytoskeleton, flagellum axoneme {ECO:0000250|UniProtKB:A8HQ54}. Note=First detected in the cytoplasm of pachytene spermatocytes. Colocalizes with alpha- tubulin at the manchette in developing spermatids. Detected in the flagellum of mature testicular spermatozoa, and in the flagellum and post-acrosomal region of the head of epididymal spermatozoa. Detected in cilia in trachea and oviduct. {ECO:0000250|UniProtKB:Q80W32}

**IQCG Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**IQCG Antibody (C-term) Blocking Peptide - Images****IQCG Antibody (C-term) Blocking Peptide - References**

Kimura, K., et al. Genome Res. 16(1):55-65(2006)Gerhard, D.S., et al. Genome Res. 14 (10B), 2121-2127 (2004)