

**CMG1 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP58581****Specification****CMG1 Polyclonal Antibody - Product Information**

Application	IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">Q96LB3</a>
Reactivity	Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69239

**CMG1 Polyclonal Antibody - Additional Information****Gene ID** 80173**Other Names**

Intraflagellar transport protein 74 homolog, Capillary morphogenesis gene 1 protein, CMG-1, Coiled-coil domain-containing protein 2, IFT74, CCDC2, CMG1

**Dilution**

IHC-P~N/A  
IHC-F~N/A  
IF~1:50~200  
E~N/A

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**CMG1 Polyclonal Antibody - Protein Information****Name** IFT74**Synonyms** CCDC2, CMG1**Function**

Component of the intraflagellar transport (IFT) complex B: together with IFT81, forms a tubulin-binding module that specifically mediates transport of tubulin within the cilium (PubMed:<a href="http://www.uniprot.org/citations/23990561" target="\_blank">23990561</a>). Binds beta-tubulin via its basic region (PubMed:<a href="http://www.uniprot.org/citations/23990561" target="\_blank">23990561</a>). Required for ciliogenesis (PubMed:<a href="http://www.uniprot.org/citations/23990561" target="\_blank">23990561</a>). Essential for flagellogenesis during spermatogenesis (PubMed:<a href="http://www.uniprot.org/citations/33689014" target="\_blank">33689014</a>).

**Cellular Location**

Cell projection, cilium. Cytoplasmic vesicle. Cell projection, cilium, flagellum. Cytoplasmic vesicle, secretory vesicle, acrosome {ECO:0000250|UniProtKB:Q8BKE9}. Note=Localizes along primary cilia at interphase and around the basal body/centriole at interphase and mitosis (PubMed:15024030). In male germ cells, strongly expressed in the vesicles of spermatocytes and round spermatids and also in the acrosome and centrosome regions of elongating spermatids and in developing sperm tails (By similarity). {ECO:0000250|UniProtKB:Q8BKE9, ECO:0000269|PubMed:15024030}

**Tissue Location**

Highly expressed in adult and fetal kidney and expressed at lower level in adult heart, placenta, lung, liver and pancreas, and in fetal heart, lung and liver. Little to no expression was detected in adult brain and skeletal muscle or in fetal brain, thymus and spleen (PubMed:11683410). Detected in sperm (at protein level) (PubMed:33689014).

**CMG1 Polyclonal 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](#)

**CMG1 Polyclonal Antibody - Images**