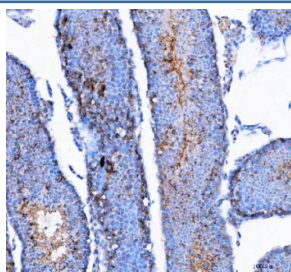


CMG-1 Antibody / Capillary morphogenesis gene 1 / IFT74 (RQ8595)

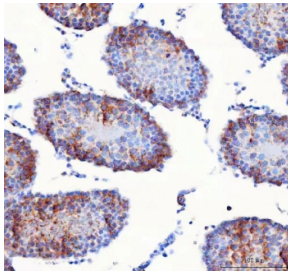
Catalog No.	Formulation	Size
RQ8595	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

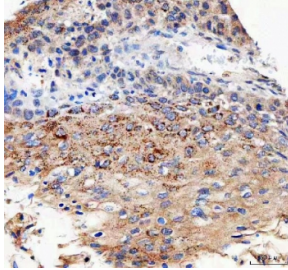
Availability	1-3 days
Species Reactivity	Human, Mouse, Rat, Monkey
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	Q96LB3
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 2-5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml
Limitations	This CMG-1 antibody is available for research use only.



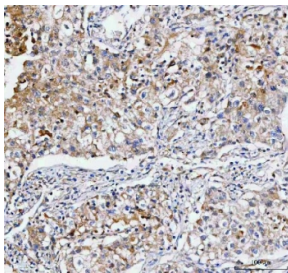
IHC staining of FFPE mouse testis tissue with CMG-1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



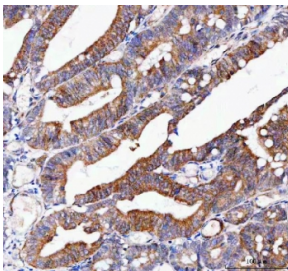
IHC staining of FFPE rat testis tissue with CMG-1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



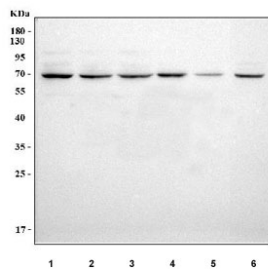
IHC staining of FFPE human esophageal squamous carcinoma tissue with CMG-1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



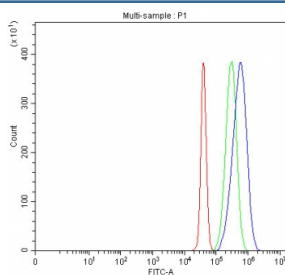
IHC staining of FFPE human lung cancer tissue with CMG-1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of FFPE human rectum adenocarcinoma tissue with CMG-1 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of 1) human 293T, 2) human Jurkat, 3) human Raji, 4) monkey COS-7, 5) rat thymus and 6) mouse thymus tissue lysate with CMG-1 antibody. Predicted molecular weight ~69 kDa.



Flow cytometry testing of fixed and permeabilized human JK cells with CMG-1 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= CMG-1 antibody.

Description

Intraflagellar transport protein 74 homolog (IFT74), also known as coiled-coil domain-containing protein 2 (CCDC2) and capillary morphogenesis gene 1 protein (CMG1), is a protein that in humans is encoded by the IFT74 gene. This gene encodes a core intraflagellar transport (IFT) protein which belongs to a multi-protein complex involved in the transport of ciliary proteins along axonemal microtubules. IFT proteins are found at the base of the cilium as well as inside the cilium, where they assemble into long arrays between the ciliary base and tip. This protein, together with intraflagellar transport protein 81, binds and transports tubulin within cilia and is required for ciliogenesis. Naturally occurring mutations in this gene are associated with amyotrophic lateral sclerosis--frontotemporal dementia and Bardet-Biedl Syndrome.

Application Notes

Optimal dilution of the CMG-1 antibody should be determined by the researcher.

Immunogen

An E.coli-derived human recombinant protein (amino acids I28-H502) was used as the immunogen for the CMG-1 antibody.

Storage

After reconstitution, the CMG-1 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.