

AP08569PU-N**Polyclonal Antibody to IFT74 (588-600) - Aff - Purified****Alternate names:**

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

Quantity:

50 µg

Concentration:

0.5 mg/ml

Background:

Capillary morphogenesis protein 1 (CMG1) is a 600 amino acid protein and has a calculated molecular mass of 65 kD. CMG1 contains a coiled-coil domain (which shares 24% identity with myosin heavy chain sequences from various species) and several putative phosphorylation sites. Bell et al. (2001) determined that CMG1 was 1 of several transcripts upregulated by umbilical vein endothelial cells during capillary morphogenesis in 3-dimensional collagen matrices. RT-PCR detected highest expression in adult and fetal kidney and lower expression 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. Transfection into epithelial tumor cells revealed targeting of fluorescent-tagged CMG1 to an intracellular vesicular compartment.

Uniprot ID:[Q96LB3](#)**NCBI:**[NP_001092692.1](#)**GeneID:**[80173](#)**Host / Isotype:**

Goat / IgG

Immunogen:

Synthetic peptide from the C-terminus of Human IFT74

AA Sequence:

C-KTIVDALHSTSGN

Remarks: Percent identity by BLAST analysis: Human, Gorilla, Orangutan, Monkey, Marmoset (100%); Gibbon (92%); Rabbit (85%)**Format:****State:** Liquid purified Ig fraction**Purification:** Immunoaffinity Chromatography**Buffer System:** Tris saline buffer, pH 7.3 containing 0.5% BSA as stabilizer and 0.02% Sodium Azide as preservative**Applications:****ELISA:** 1/16000.**Immunohistochemistry on Paraffin Sections:** 5 µg/ml.**Western Blot.**

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:

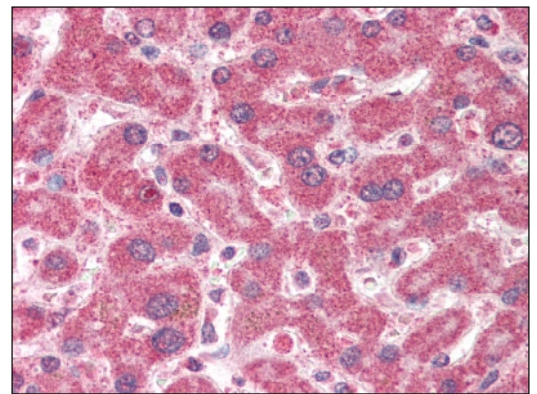
Recognizes IFT74/CMG1 at aa 588-600.

Species Reactivity:**Tested:** Human, Gorilla, Orangutan, Monkey, Marmoset, Gibbon, Rabbit

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

Product Citations: **Originator or purchased from resellers:**
1. Analysis of IFT74 as a candidate gene for chromosome 9p-linked ALS-FTD. Momeni P, Schymick J, Jain S, Cookson MR, Cairns NJ, Greggio E, Greenway MJ, Berger S, Pickering-Brown S, Chi A, Fung HC, Holtzman DM, Huey ED, Wassermann EM, Adamson J, Hutton ML, Rogaeva E, St George-Hyslop P, Rothstein JD, Hardiman O, Grafman J, Single. BMC neurology. 2006 6:44. [PubMed:17166276] [PMC:PMC1764752]
2. Boldt K, Mans DA, Won J, van Reeuwijk J, Vogt A, Kinkl N, et al. Disruption of intraflagellar protein transport in photoreceptor cilia causes Leber congenital amaurosis in humans and mice. J Clin Invest. 2011 Jun;121(6):2169-80. doi: 10.1172/JCI45627. Epub 2011 May 23. PubMed PMID: 21606596.

Pictures: Liver: Formalin-Fixed Paraffin-Embedded (FFPE)



Antibody staining (0.3 µg/ml) of 293 lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using Chemiluminescence.

