



## EB07088 - Goat Anti-IFT88 / Polaris Antibody

Size: 100µg specific antibody in 200µl



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**Research Use Only. Not for diagnostic or therapeutic use.**

### Target Protein

**Principal Names:** IFT88, polaris, TTC10, tetratricopeptide repeat domain 10, HGNC:20606, D13S1056E, DAF19, IFT88, MGC26259, RP11-172H24.2, TG737, hTg737, TPR repeat protein 10, Probe hTg737 (polycystic kidney disease, autosomal recessive), Tg737 protein, intraflagellar transport 88 homolog, recessive polycystic kidney disease protein Tg737 homolog, intraflagellar transport 88 homolog (Chlamydomonas)

**Official Symbol:** IFT88

**Accession Number(s):** NP\_783195.2; NP\_006522.2, NP\_001340507.1; NP\_001340498.1

**Human GeneID(s):** [8100](#)

**Non-Human GeneID(s):** 21821 (mouse), 305918 (rat)

**Important Comments:** This antibody is expected to recognise many reported isoforms.

### Immunogen

Peptide with sequence C-KKRIDEDDFADEE, from the C Terminus of the protein sequence according to NP\_783195.2; NP\_006522.2, NP\_001340507.1; NP\_001340498.1.

Please note the [peptide](#) is available for sale.

### Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

### Applications Tested

**Peptide ELISA:** antibody detection limit dilution 1:32000.

**Western blot:** Approx 85-90kDa band observed in lysates of cell lines HepG2 and NIH3T3 and in Human Kidney lysates (calculated MW of 85.3kDa according to Human NP\_001340507.1 and 90.4kDa according to NP\_001340498.1, and 93.1kDa according to Mouse NP\_033402.2 93. and 89.2kDa according to XP\_006518873.1). Recommended concentration: 0.3-1µg/ml. Primary incubation 1 hour at room temperature.

**IHC:** In paraffin embedded Human Kidney shows staining of the brush border in PCT. Recommended concentration: 3µg/ml.

**Immunofluorescence:** Expression of the protein seen within the nucleus and cytoplasm of HepG2 cells. Recommended concentration: 10µg/ml. This antibody has been successfully used in IF on Mouse Olfactory and Respiratory Epithelium cells as described in the following paper: Miyoshi et al, FASEB J. 2009 Oct;23(10):3289-97, PMID: 19470799.

**Flow Cytometry:** Flow cytometric analysis of HepG2 cells. Recommended concentration: 10µg/ml.

### Species Reactivity

**Tested:** Human, Mouse

**Expected from sequence similarity:** Human, Mouse, Rat, Dog

### Specific Reference

**This antibody has been successfully used in IF on Mouse:**

Miyoshi K, Kasahara K, Miyazaki I, Shimizu S, Taniguchi M, Matsuzaki S, Tohyama M, Asanuma M.

Pericentrin, a centrosomal protein related to microcephalic primordial dwarfism, is required for olfactory cilia assembly in mice.

FASEB J. 2009 Oct;23(10):3289-97.

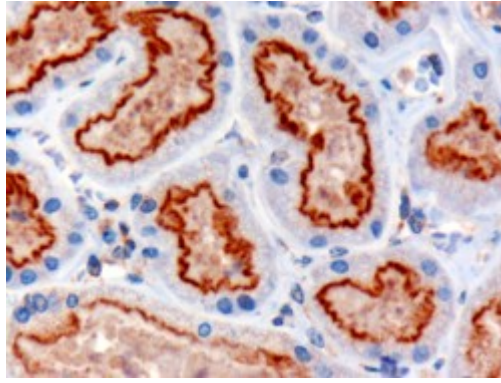
PMID: 19470799



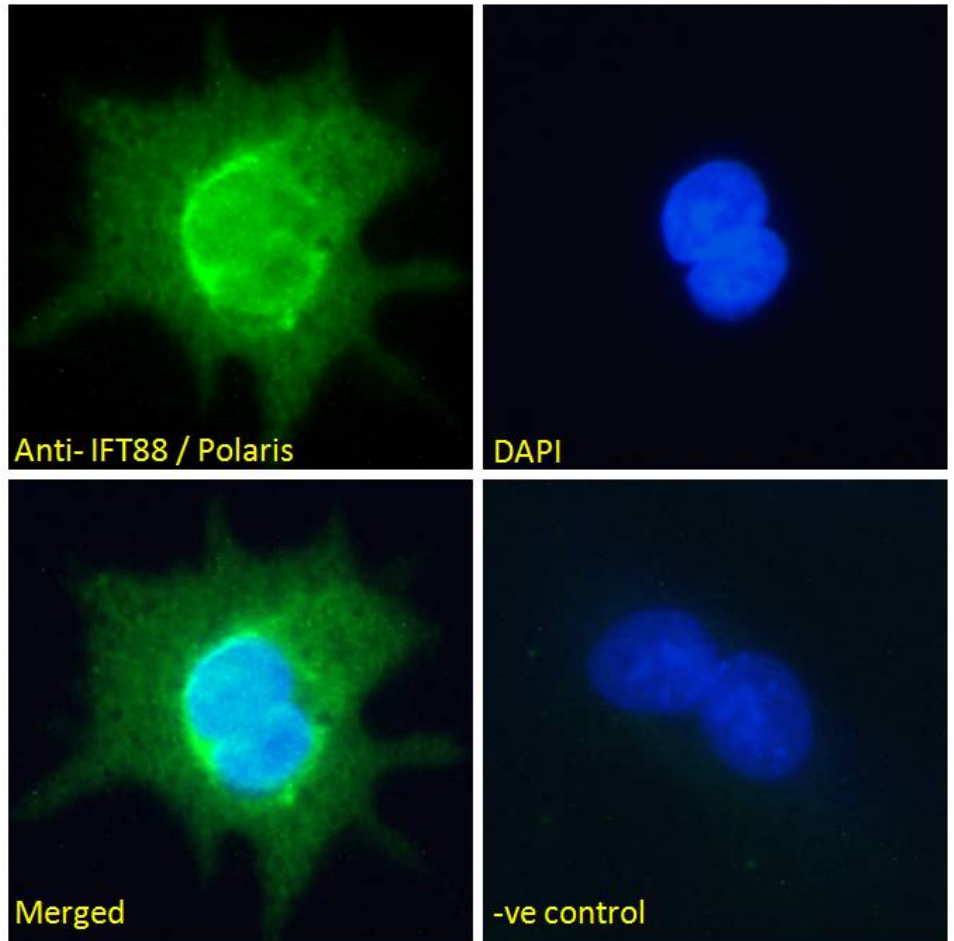
EB07088 (0.5µg/ml) staining of Human Kidney lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



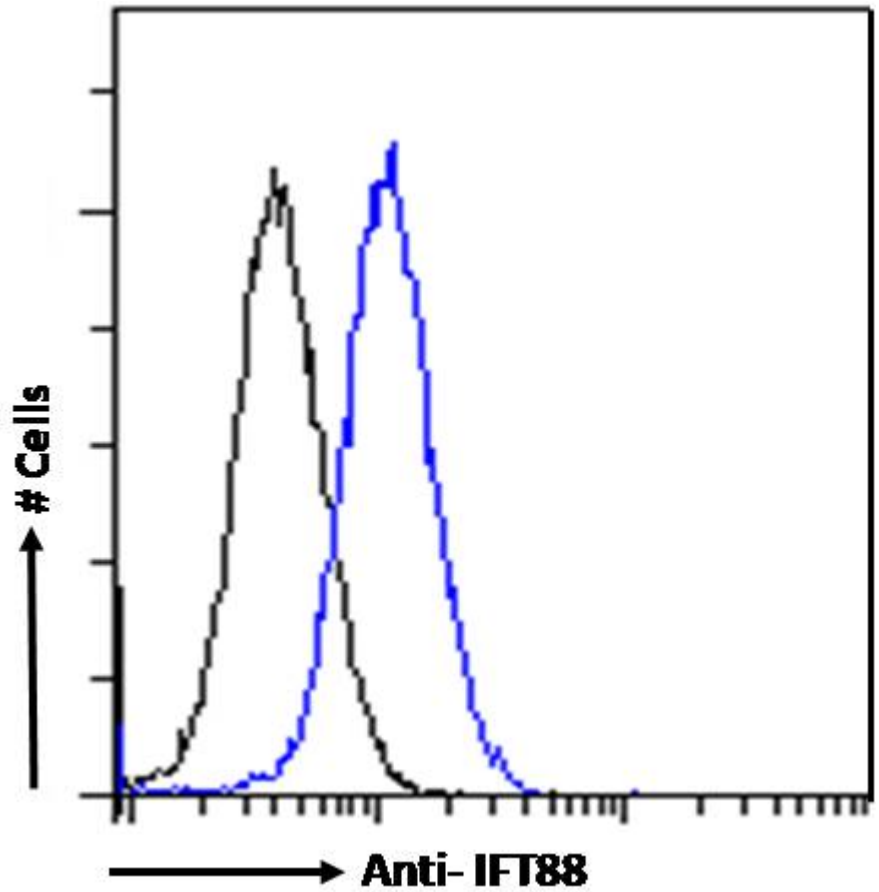
EB07088 (0.5µg/ml) staining of HepG2 (A) and NIH3T3 (B) cell lysate (35µg protein in RIPA buffer). Detected by chemiluminescence.



EB07088 (3 $\mu$ g/ml) staining of paraffin embedded Human Kidney. Microwaved antigen retrieval with Tris/EDTA buffer pH9, HRP-staining.



EB07088 Immunofluorescence analysis of paraformaldehyde fixed HepG2 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 $\mu$ g/ml) followed by Alexa Fluor 488 secondary antibody (2 $\mu$ g/ml).



EB07088 Flow cytometric analysis of paraformaldehyde fixed HepG2 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.