IFT140 Polyclonal antibody

Catalog Number: 17460-1-AP

Basic Information

- **Catalog Number:** 17460-1-AP
- **Size:** 150μl, Concentration: 900 μg/ml by Nanodrop
- **Source:** Rabbit
- **Isotype:** IgG
- **Immunogen Catalog Number:** AG11119
- **GenBank Accession Number:** BC035577
- **Gene ID (NCBI):** 9742
- **Full Name:** intraflagellar transport 140 homolog (Chlamydomonas)
- **Calculated MW:** 1462 aa, 165 kDa
- **Observed MW:** 140 kDa
- **Purification Method:** Antigen affinity purification

Recommended Dilutions:
- **WB:** 1:1000-1:6000
- **IP:** 0.5-4.0 μg for IP and 1:200-1:1000 for WB
- **IHC:** 1:50-1:500
- **IF:** 1:400-1:1600

**Applications**

- **Tested Applications:** IF, IHC, IP, WB, ELISA
- **Cited Applications:** CoIP, IF, IHC, IP, WB
- **Species Specificity:** human, mouse, rat
- **Cited Species:** human, mouse, zebrafish, canine

**Note-IHC:** suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

**Background Information**

IFT140 is a subunit of intraflagellar transport complex A (IFT-A) which is involved in retrograde cilary transport. RT-PCR analysis showed it is highly expressed in kidney, moderately in ovary, testis, prostate, and lung. IFT140 is localised to the base and tip of primary cilium. IFT140 has a pivotal role in development and function of ciliated cells, and mutations of IFT140 cause skeletal, renal, and retinal ciliopathies. It had been detected as a single band around 140-165 kDa in different reports. (PMID: 20368623, 22282595)

**Notable Publications**

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<tr>
<th>Author</th>
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<th>Journal</th>
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<tbody>
<tr>
<td>Lei Wang</td>
<td>30258116</td>
<td>Nat Commun</td>
<td>IF</td>
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<tr>
<td>Jesús Muñoz-Estrada</td>
<td>31391239</td>
<td>J Cell Sci</td>
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<tr>
<td>Carol-Anne Martin</td>
<td>25346692</td>
<td>Nat Genet</td>
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**Storage**

- **Storage:** Store at -20°C. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
- **Aliquoting is unnecessary for -20°C storage**

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For technical support and original validation data for this product please contact:
- T: 1 (888) 4PTGLAB (1-888-478-4522) [toll free in USA], or 1(312) 455-8498 (outside USA)
- E: proteintech@ptglab.com
- W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

*** 20μl sizes contain 0.1% BSA
Selected Validation Data

Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using IFT140 antibody (17460-1-AP) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), acetylated Tubulin(Lys40) antibody (66200-1-Ig, Clone: 7E5HB, red).

Various lysates were subjected to SDS PAGE followed by western blot with 17460-1-AP (IFT140 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 17460-1-AP (IFT140 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

IP Result of anti-IFT140 (IP:17460-1-AP, 4ug; Detection:17460-1-AP 1:300) with rat testis tissue lysate 4400ug.

Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using IFT140 antibody (17460-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), DAPI (blue).

Immunofluorescent analysis of (4% PFA) fixed hTERT-RPE1 cells using IFT140 antibody (17460-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), acetylated Tubulin(Lys40) antibody (66200-1-Ig, Clone: 7E5HB, red).