

For Research Use Only

CEP290 Monoclonal antibody

Catalog Number: 67716-1-Ig



Basic Information

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| Catalog Number: 67716-1-Ig | GenBank Accession Number: BC008641 | Purification Method: Protein A purification |
| Size: 150ul , Concentration: 2100 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 80184 | CloneNo.: 2C10G2 |
| Source: Mouse | UNIPROT ID: O15078 | Recommended Dilutions: WB 1:1000-1:4000 |
| Isotype: IgG2b | Full Name: centrosomal protein 290kDa | |
| Immunogen Catalog Number: AG17457 | Calculated MW: 2479 aa, 290 kDa | |
| | Observed MW: 290 kDa | |

Applications

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| Tested Applications: WB, ELISA | Positive Controls: WB : HEK-293 cells, HSC-T6 cells, HeLa cells, NCCIT cells, K-562 cells |
| Species Specificity: Human, rat, mouse | |

Background Information

Studies in the Chlamydomonas model system has shown that the ciliary protein CEP290 is a critical component of these Y-link junctions. Additionally, numerous studies have demonstrated that CEP290's function is critical for IFT- in CEP290 knockdown experiments, many proteins that would normally localize to the cilium fail to do so, and cilium formation is disrupted or absent. Mutations in CEP290 are accountable for cases of nephronophthisis, Leber congenital amaurosis and Joubert syndrome. In IF analysis of HeLa cells, the white arrows show centrosome and cilium staining. Two isoforms were produced by alternative splicing with predicted MW of 290 and 180 kDa according to UniProt.

Storage

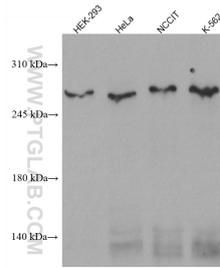
Storage:
Store at -20°C.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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)
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67716-1-Ig (CEP290 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.