

Datasheet for ABIN7548461
IFT20 Protein (AA 1-132) (His tag)



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Overview

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| Quantity: | 1 mg |
| Target: | IFT20 |
| Protein Characteristics: | AA 1-132 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This IFT20 protein is labelled with His tag. |

Product Details

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| Purpose: | Custom-made recombinant IFT20 Protein expressed in mammalian cells. |
| Sequence: | <p>MAKDILGEAG LHFDELNKLRLVDPEVTQQT IELKEECKDF VDKIGQFQKI VGGLIELVDQ LAKEAENEKM KAIGARNLLK SIAKQREAQQ QQLQALIAEK KMQLERYRVE YEALCKVEAE QNEFIDQFIF QK Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p> |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | <p>Key Benefits:</p> <ul style="list-style-type: none"> • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalian cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. |

Product Details

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

Target Details

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| Target: | IFT20 |
| Alternative Name: | IFT20 (IFT20 Products) |
| Background: | <p>Intraflagellar transport protein 20 homolog (hIFT20),FUNCTION: Part of intraflagellar transport (IFT) particles involved in ciliary process assembly (PubMed:17604723). May play a role in the trafficking of ciliary membrane proteins from the Golgi complex to the cilium (PubMed:16775004). Regulates the platelet-derived growth factor receptor-alpha (PDGFRA) signaling pathway. Required for protein stability of E3 ubiquitin ligases CBL and CBLB that mediate ubiquitination and internalization of PDGFRA for proper feedback inhibition of PDGFRA signaling (PubMed:29237719). Essential for male fertility. Plays an important role in spermatogenesis, particularly spermiogenesis, when germ cells form flagella. May play a role in the transport of flagellar proteins ODF2 and SPAG16 to build sperm flagella and in the removal of redundant sperm cytoplasm (By similarity). Also involved in autophagy since it is required for trafficking of ATG16L and the expansion of the autophagic compartment (By similarity).</p> <p>{ECO:0000250 UniProtKB:Q61025, ECO:0000269 PubMed:16775004, ECO:0000269 PubMed:17604723, ECO:0000269 PubMed:29237719}.</p> |
| Molecular Weight: | 15.3 kDa |
| UniProt: | Q8IY31 |
| Pathways: | Hedgehog Signaling |

Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |