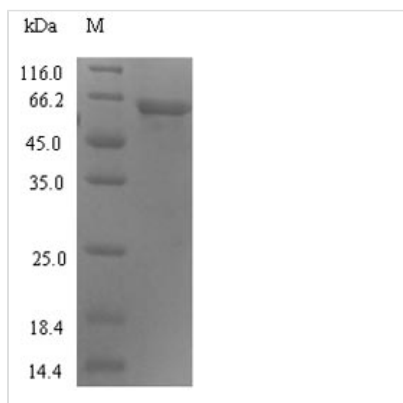




Recombinant Human Protein ABHD18 (ABHD18)

| | |
|--------------------------|---|
| Product Code | CSB-EP610370HU |
| Abbreviation | Recombinant Human ABHD18 protein |
| Storage | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| Uniprot No. | Q0P651 |
| Product Type | Recombinant Protein |
| Immunogen Species | Homo sapiens (Human) |
| Purity | Greater than 90% as determined by SDS-PAGE. |
| Sequence | RPEDLKRLFEFRKMIGNRERCQNLVSSDYPVHIDKIEEQSDCKILDGHHVSPMA HYVPDIMPIESVIARFQFIVPKEWNSKYRPVCIHLAGTGDHHYWRRRTLARP MIKEARMASLLLENPYYGCRKPKDQVRSSLKNVSDLFVMGGALVLESAALLH WLREGYGPLGMTGISMGGHMASLAVSNWPKPMPLIPCLSWSTASGVFTTTD SFKMGQEFVKHFTSSADKLTNLNLVSRTLNLDISNQVVSQKPADCHNSSKTSV SATSEGLLLQDTSKMKRFNQTLSTNKSQYTSRNPQSYHLLSKEQSRNSLRKE SLIFMKGVMDECTHVANFSVPVDP SLIIVVQAKEDAYIPRTGVRSLQEIWPGCEI RYLEGGHISAYLFKQGLFR |
| Research Area | Cell Biology |
| Source | E.coli |
| Target Names | ABHD18 |
| Expression Region | 25-414aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | N-terminal 6xHis-SUMO-tagged |
| Mol. Weight | 60.1kDa |
| Protein Length | Full Length of Mature Protein |

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Description

Protein ABHD18 has been identified as a genetic marker for hepatocellular carcinoma (HCC) in Asian populations [1]. While ABHD18 has been suggested as a putative plant-specific subunit, its presence was not observed in certain studies [2]. In the context of lipid metabolism, ABHD18 is linked to α/β hydrolase domain 2 (Abhd2) in the STRING protein-protein association network database, indicating a potential interaction between these two proteins [3].

These references collectively provide insights into the diverse roles and implications of ABHD18 in various biological systems. The association of ABHD18 with HCC underscores its clinical significance, especially in cancer research. The absence of ABHD18 in certain plant structures highlights the necessity for further exploration of its specific functions and distribution across different species. The potential interaction between ABHD18 and Abhd2 in lipid metabolism pathways presents opportunities for investigating the molecular mechanisms involved in lipid processing and signaling.

References:

- [1] R. Rashmi and S. Majumdar, "Pan-cancer analysis reveals the prognostic potential of the thap9/thap9-as1 sense-antisense gene pair in human cancers", *Non-Coding Rna*, vol. 8, no. 4, p. 51, 2022.
<https://doi.org/10.3390/ncrna8040051>
- [2] M. Maldonado, F. Guo, & J. Letts, "Atomic structures of respiratory complex iii2, complex iv and supercomplex iii2-iv from vascular plants", 2020.
<https://doi.org/10.1101/2020.08.30.274431>
- [3] T. Price, D. Stapleton, K. Schueler, M. Norris, B. Parks, B. Yandellet al., "Lipidomic qtl in diversity outbred mice identifies a novel function for α/β hydrolase domain 2 (abhd2) as an enzyme that metabolizes phosphatidylcholine and cardiolipin", 2023. <https://doi.org/10.1101/2023.03.23.533902>

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.