

## SCUBE2 recombinant protein

Human SCUBE2(441-659) Protein, hFc Tag

CATALOG #  
**AAA47547**

HOST  
**HEK293**

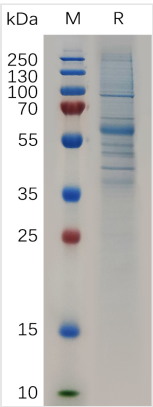
### PRODUCT SYNONYMS

SCUBE2; Human SCUBE2(441-659) Protein; hFc Tag; CEGP1; Scube/You; SCUBE2 recombinant protein

### PRODUCT SPECIFICATIONS

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                       | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification        | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Form/Format                | Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.                                                                                                                                                                                                                                                                                                                                         |
| Concentration              | 0.328 mg/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tag                        | hFc tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Visual Inspection          | Test: Lyophilization ; Specification: Dried white powder ; Result : Pass<br>Test: Vial label ; Specification: Label aligned and complete ; Result : Pass<br>Test: Bottle Sealing (manual check) ; Specification: Sealed tight ; Result: Pass                                                                                                                                                                                                                                                                                             |
| Quantity                   | Test: Bradford Method ; Specification: $\geq$ Spcified quantity ; Result: Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Other Properties           | Test: pH ; Specification: $7.4 \pm 0.5$ ; Result: Pass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reconstitution             | 1) Before opening the cap, centrifuge the sample tube at 5000g for 3-5 min at room temperature to ensure the lyophilized sample to settle down at the bottom of the tube.<br>2) Dissolved lyophilized sample in sterile and low endotoxin water based on the above concentration, e.g. use <b>281.69 ul (100/0.355)</b> water to disolve <b>100ug</b> lyophilized product.<br>3)After adding sterile water , cover the lid and mix them by gently tapping the tube for 5-10 times. Note: Do not vortex or vigorously pipette the sample. |
| Molecular Characterization | SCUBE2(Asp441-Asn659 ) hFc(Glu99-Ala330)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage    | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.                                                                                                                                                                                                                                                                                      |

IMAGES



SDS-PAGE  
Figure 1. Human SCUBE2 (441-659) Protein, hFc Tag on SDS-PAGE under reducing condition.

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for SCUBE2 recombinant protein | Recombinant human SCUBE2(441-659) protein with C-terminal human Fc tag<br>Lipid-binding protein required for SHH long-range signaling by binding to the dually lipid-modified SHH (ShhNp) and by promoting ShhNp mobilization, solubilization and release from the cell membrane (PubMed:22902404, PubMed:22677548). Acts by enhancing the proteolytic processing (shedding) of the lipid-modified N- and C-terminal of ShhNp at the cell surface (PubMed:24522195). Synergizes with DISP1 to increase SHH secretion (PubMed:22902404). Probable cell surface coreceptor for VEGFR2 involved in VEGFR2-mediated angiogenesis (PubMed:27834687). |
| Product Categories/Family for SCUBE2 recombinant protein   | Bioactive Protein                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                  |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 283046663                                                                                                                                                                                                        |
| NCBI GeneID                      | 57758                                                                                                                                                                                                            |
| NCBI Accession #                 | NP_066025                                                                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_020974.2                                                                                                                                                                                                      |
| UniProt Accession #              | Q9NQ36; Q2NKQ8; Q6ZW11                                                                                                                                                                                           |
| Molecular Weight                 | Molecular Weight The protein has a predicted molecular mass of 50.2 kDa after removal of the signal peptide. The apparent molecular mass of SCUBE2(441-659)-hFc is approximately 35-55 kDa due to glycosylation. |
| NCBI Official Full Name          | signal peptide, CUB and EGF-like domain-containing protein 2 isoform 1                                                                                                                                           |
| NCBI Official Synonym Full Names | signal peptide, CUB domain, EGF-like 2                                                                                                                                                                           |
| NCBI Official Symbol             | SCUBE2                                                                                                                                                                                                           |
| NCBI Official Synonym Symbols    | CEGB1; CEGF1; CEGP1                                                                                                                                                                                              |
| NCBI Protein Information         | signal peptide, CUB and EGF-like domain-containing protein 2                                                                                                                                                     |
| UniProt Protein Name             | Signal peptide, CUB and EGF-like domain-containing protein 2                                                                                                                                                     |
| UniProt Gene Name                | SCUBE2                                                                                                                                                                                                           |
| UniProt Synonym Gene Names       | CEGP1                                                                                                                                                                                                            |
| UniProt Entry Name               | SCUB2_HUMAN                                                                                                                                                                                                      |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/scube2-recombinant-protein-hek293/47547>