Recombinant Human SCUBE3 protein, His & T7-tagged

Cat. No. SCUBE3-1546H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SCUBE3 aa. (Glu807~Lys993 (Accession # Q8IX30)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Glu807~Lys993
Description	This gene encodes a member of the signal peptide, complement subcomponents C1r/C1s, Uegf, bone morphogenetic protein-1 and epidermal growth factor-like domain containing protein family. Overexpression of this gene in human embryonic kidney cells results in secretion of a glycosylated form of the protein that forms oligomers and tethers to the cell surface. This gene is upregulated in lung cancer tumor tissue compared to healthy tissue and is associated with loss of the epithelial marker E-cadherin and with increased expression of vimentin, a mesenchymal marker. In addition, the protein encoded by this gene is a transforming growth factor beta receptor ligand, and when secreted by cancer cells, it can be cleaved in vitro to release the N-terminal epidermal growth factor-like repeat domain and the C-terminal complement subcomponents C1r/C1s domain. Both the full length protein and C-terminal fragment can bind to the transforming growth factor beta type II receptor to promote the epithelial-mesenchymal transition and tumor angiogenesis. Alternative splicing results in multiple transcript variants.

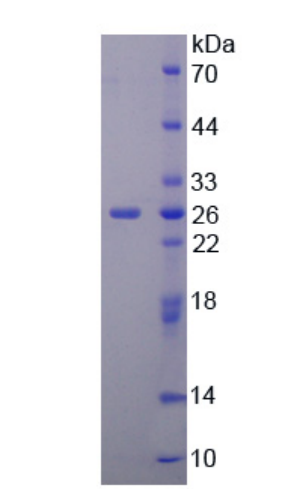
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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 25.5kDa
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
Isoelectric Point	7.9

GENE INFORMATION

Gene Name	SCUBE3 signal peptide, CUB domain and EGF like domain containing 3 [Homo sapiens (human)]
Official Symbol	SCUBE3

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Synonyms	SCUBE3; signal peptide, CUB domain and EGF like domain containing 3; CEGF3; signal peptide, CUB and EGF-like domain-containing protein 3; CUB domain and EGF-like repeat containing 3
Gene ID	222663
mRNA Refseq	NM_001303136.1
Protein Refseq	NP_001290065.1
UniProt ID	Q8IX30
SDS-PAGE	 15% SDS-PAGE

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