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Datasheet for 600-401-EF1

SCUBE3 Antibody

Overview

Description:	Anti-SCUBE3 (RABBIT) Antibody - 600-401-EF1
Item No.:	600-401-EF1
Size:	100 µg
Applications:	ELISA, IHC
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	SCUBE3 is a member of a family of secreted glycoproteins that contain N-terminal EGF-like repeats and C-terminal cysteine-rich motifs and CUB domain and is highly expressed in primary osteoblasts and bones, and to a lesser extent in heart (1,2). Other studies have shown that overexpression of SCUBE3 in mice induced cardiac hypertrophy, suggesting that it may also play a role in the regulation of cardiac growth. SCUBE3 has been shown to be an endogenous TGF-beta receptor ligand (3,4) and is thought to promote lung cancer cell mobility and invasiveness. In lung cancer cells, the secreted SCUBE3 protein was cleaved by MMP2 and MMP9, allowing the activation of the TGF-beta receptor, the increase of Smad2/3 transcriptional activity and the upregulation of expression of proteins such as TGF-beta1, VEGF, Snail, and Slug.
Synonyms:	SCUBE3 Antibody, CEGF3, CEGF3, Signal peptide, CUB and EGF-like domain-containing protein 3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	SCUBE3
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-SCUBE3 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid peptide near the internal region of human SCUBE3.

Purity/Specificity:	Anti-SCUBE3 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with SCUBE3 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8IX30 • GeneID - 222663 • NCBI - NP_689966

Application Details

Tested Applications:	ELISA, IHC
Application Note:	Anti-SCUBE3 Antibody has been tested for use in ELISA, and Immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 109 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	5 µg/mL

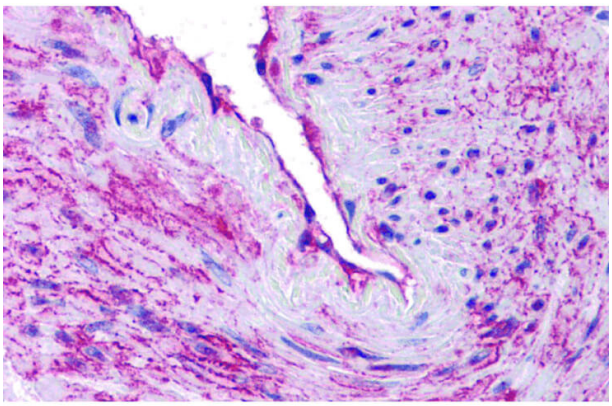
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry
Immunohistochemistry of SCUBE3 antibody. Tissue: Blood vessel tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: SCUBE3 antibody at 10 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: SCUBE3 is secreted into the extracellular space. Staining: SCUBE3 as precipitated purple signal with blue nuclear counterstain.

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