10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SCUBE3 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP19055c

Specification

SCUBE3 Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q8IX30

SCUBE3 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 222663

Other Names
Signal peptide, CUB and EGF-like domain-containing protein 3, SCUBE3 (HGNC:13655)

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SCUBE3 Antibody (Center) Blocking Peptide - Protein Information

Name SCUBE3 (HGNC:13655)

Function
Is a positive regulator of the BMP signaling pathway, required for proper chondrogenesis, osteogenesis and skeletal development. It acts as a coreceptor for BMP ligands, particularly BMP2 and BMP4, facilitating their interactions with BMP type I receptors (PubMed:33308444). It is required for ligand-induced recruitment of BMP receptors to lipid rafts (By similarity). Binds to TGFBR2 and activates TGFB signaling. In lung cancer cells, could serve as an endogenous autocrine and paracrine ligand of TGFBR2, which could regulate TGFBR2 signaling and hence modulate epithelial-mesenchymal transition and cancer progression.

Cellular Location
Secreted. Cell surface

Tissue Location
Highly expressed in osteoblasts. In normal lung, mainly expressed in bronchial epithelial cells. Tends to be up- regulated in lung cancer cells.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SCUBE3 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SCUBE3 Antibody (Center) Blocking Peptide - Images

SCUBE3 Antibody (Center) Blocking Peptide - Background

SCUBE3 contains one CUB domain and 9 EGF-like domains. It is highly expressed in primary osteoblasts and the long bones (humerus and femur) and expression is low or absent in non-bone tissues. It may play an important role in bone cell biology.

SCUBE3 Antibody (Center) Blocking Peptide - References

Zhao, J., et al. BMC Med. Genet. 11, 96 (2010) :Gudbjartsson, D.F., et al. Nat. Genet. 40(5):609-615(2008)Wu, B.T., et al. J. Biol. Chem. 279(36):37485-37490(2004)Mungall, A.J., et al. Nature 425(6960):805-811(2003)Yang, R.B., et al. J. Biol. Chem. 277(48):46364-46373(2002)