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

SCUBE2 Antibody (Center N266)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11462c

Product Information

Application	WB, IHC-P, IF, E
Primary Accession	Q9NQ36
Other Accession	NP_066025.2, NP_001164161.1
Reactivity	Human, Mouse, Rat
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19840
Calculated MW	109957
Antigen Region	251-280

Additional Information

Gene ID	57758
Other Names	Signal peptide, CUB and EGF-like domain-containing protein 2, Protein CEGP1, SCUBE2, CEGP1
Target/Specificity	This SCUBE2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 251-280 amino acids from the Central region of human SCUBE2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 IF~~1:10~50 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SCUBE2 Antibody (Center N266) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

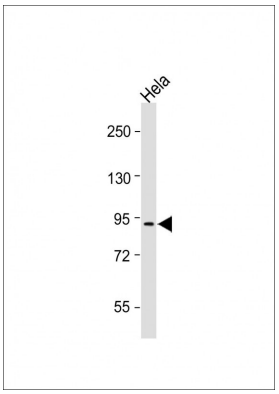
Name	SCUBE2 {ECO:0000303|PubMed:12270931, ECO:0000312|HGNC:HGNC:30425}

Function	Lipid-binding protein carrier required for sonic hedgehog (SHH) long-range signaling: binds to the dually lipid-modified Sonic hedgehog protein N-product (ShhN) and promotes its release from producing cells, allowing it to act as a morphogen for distant signaling (PubMed:19480626, PubMed:22677548, PubMed:22902404, PubMed:35231446). ShhN is then transferred to the CDON-BOC heterodimer and GAS1 coreceptors to reach its target, the patched receptor (PTCH1 or PTCH2), followed by activation of the smoothened signaling pathway (PubMed:35231446). May also enhance 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).
Cellular Location	Secreted. Cell surface. Note=Secreted and tethered at the cell surface.
Tissue Location	Expressed in a broad spectrum of adult tissues (PubMed:12270931).

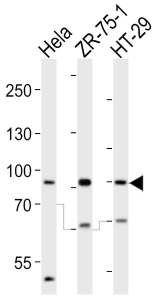
References

Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :
Guey, L.T., et al. Eur. Urol. 57(2):283-292(2010)
Hosgood, H.D. III, et al. Respir Med 103(12):1866-1870(2009)
Tsai, M.T., et al. Biochem. J. 422(1):119-128(2009)
Shen, M., et al. Environ. Mol. Mutagen. 50(4):285-290(2009)

Images

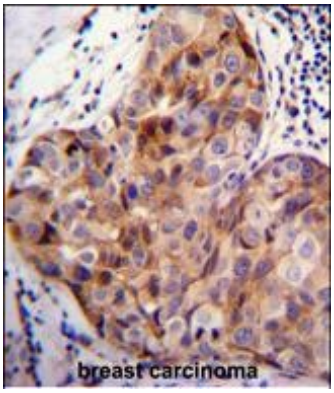


All lanes : Anti-SCUBE2 Antibody (Center N266) at 1:1000 dilution Lane 1: Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size : 90kDa Blocking/Dilution buffer: 5% NFDM/TBST.

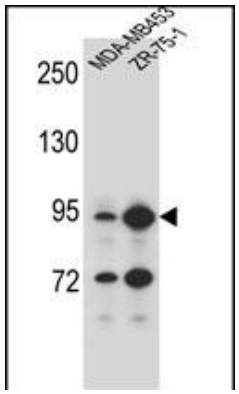


Western blot analysis of lysates from Hela, ZR-75-1, HT-29 cell line (from left to right), using SCUBE2 Antibody (Center N266)(Cat. #AP11462c). AP11462c was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

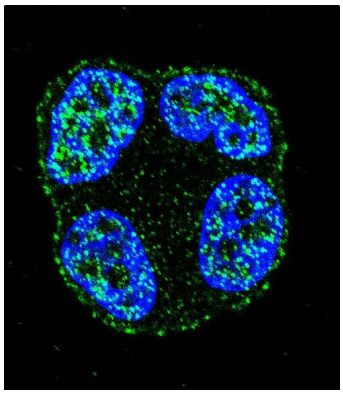
SCUBE2 Antibody (Center N266) (Cat. #AP11462c)immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary



antibody and DAB staining.This data demonstrates the use of SCUBE2 Antibody (Center N266) for immunohistochemistry. Clinical relevance has not been evaluated.



SCUBE2 Antibody (Center N266) (Cat. #AP11462c) western blot analysis in MDA-MB453,ZR-75-1 cell line lysates (35ug/lane).This demonstrates the SCUBE2 antibody detected the SCUBE2 protein (arrow).



Confocal immunofluorescent analysis of SCUBE2 Antibody (Center N266)(Cat#AP11462c) with ZR-75-1 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.