SANTA CRUZ BIOTECHNOLOGY, INC.

SCUBE3 (S-14): sc-103879

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

SCUBE3 (signal peptide, CUB domain, EGF-like 3), also known as CEGF3, is a novel secreted 993 amino acid cell-surface osteoblast protein that plays an important role in bone cell biology. While highly expressed in osteoblasts, SCUBE3 expression is unobservable or very low in non-bone tissues. SCUBE3 forms homo-oligomers and hetero-oligomers with SCUBE1, and may undergo C-terminal proteolytic cleavage or become N-glycosylated following translation. Two SCUBE3 isoforms exist as a result of alternative splicing events. SCUBE3 contains one CUB domain and nine EGF-like domains, and is encoded by a gene which maps to human chromosome 6p21.31, a region associated with a rare form of metabolic bone disease known as Paget's disease. Chromosome 6 contains 170 million base pairs and comprises nearly 6% of the human genome.

CHROMOSOMAL LOCATION

Genetic locus: SCUBE3 (human) mapping to 6p21.31; Scube3 (mouse) mapping to 17 A3.3.

SOURCE

SCUBE3 (S-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of SCUBE3 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103879 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

APPLICATIONS

SCUBE3 (S-14) is recommended for detection of SCUBE3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with SCUBE1 or SCUBE2.

SCUBE3 (S-14) is also recommended for detection of SCUBE3 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for SCUBE3 siRNA (h): sc-95189, SCUBE3 siRNA (m): sc-106536, SCUBE3 shRNA Plasmid (h): sc-95189-SH, SCUBE3 shRNA Plasmid (m): sc-106536-SH, SCUBE3 shRNA (h) Lentiviral Particles: sc-95189-V and SCUBE3 shRNA (m) Lentiviral Particles: sc-106536-V.

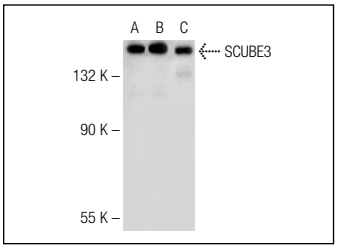
Molecular Weight of SCUBE3: 130/65 kDa.

Positive Controls: SCUBE3 (h): 293T Lysate: sc-177903 or HUV-EC-C cell lysate: sc-364180.

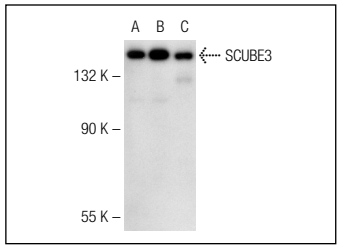
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SCUBE3 (S-14): sc-103879. Western blot analysis of SCUBE3 expression in non-transfected 293T: sc-117752 (**A**), human SCUBE3 transfected 293T: sc-177903 (**B**) and HUV-EC-C (**C**) whole cell lysates.



SCUBE3 (S-14): sc-103879. Western blot analysis of SCUBE3 expression in non-transfected 293T: sc-117752 (**A**), human SCUBE3 transfected 293T: sc-177904 (**B**) and HUV-EC-C (**C**) whole cell lysates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed

Try **SCUBE3 (G-5): sc-514696** or **SCUBE3 (H-10): sc-514697**, our highly recommended monoclonal alternatives to SCUBE3 (S-14).