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Datasheet for ABIN6243003

anti-SREBF chaperone antibody (N-Term)

1 Image

Overview

| | |
|----------------------|--|
| Quantity: | 200 µL |
| Target: | SREBF chaperone (SCAP) |
| Binding Specificity: | AA 49-83, N-Term |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This SREBF chaperone antibody is un-conjugated |
| Application: | Western Blotting (WB) |

Product Details

| | |
|---------------|--|
| Immunogen: | This SCAP antibody is generated from a mouse immunized with a KLH conjugated synthetic peptide between 49-83 amino acids from the N-terminal region of human SCAP. |
| Clone: | 1992C245-37-16 |
| Isotype: | IgG1 kappa |
| Purification: | This antibody is purified through a protein G column, followed by dialysis against PBS. |

Target Details

| | |
|-------------------|---|
| Target: | SREBF chaperone (SCAP) |
| Alternative Name: | SCAP (SCAP Products) |
| Background: | Escort protein required for cholesterol as well as lipid homeostasis. Regulates export of the |

Target Details

SCAP/SREBF complex from the ER upon low cholesterol. Formation of a ternary complex with INSIG at high sterol concentrations leads to masking of an ER-export signal in SCAP and retention of the complex in the ER. Low sterol concentrations trigger release of INSIG, a conformational change in the SSC domain of SCAP, unmasking of the ER export signal, recruitment into COPII-coated vesicles, transport to the Golgi complex, proteolytic cleavage of SREBF in the Golgi, release of the transcription factor fragment of SREBF from the membrane, its import into the nucleus and up-regulation of LDLR, INSIG1 and the mevalonate pathway (By similarity).

Molecular Weight: 139729

UniProt: [Q12770](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

Application Details

Application Notes: WB: 1:4000

Restrictions: For Research Use only

Handling

Format: Liquid

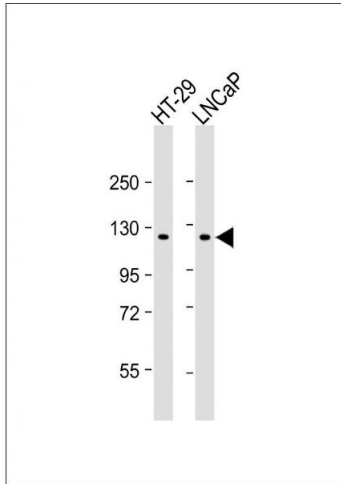
Buffer: Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C, -20 °C

Expiry Date: 6 months



Western Blotting

Image 1. All lanes : Anti-SC Antibody (N-term) at 1:4000 dilution Lane 1: HT-29 whole cell lysate Lane 2: LNC whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-mouse IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 140 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.