

CIB2 (CIB2C12B11): sc-81068

BACKGROUND

CIB2 (Calcium and integrin-binding family member 2) is a 187 amino acid protein encoded by the human gene CIB2. CIB2 is a ubiquitously expressed protein that contains three EF-hand domains. CIB2 is closely related to CIB1 (CIB1 has one less EF-hand domain), which is known to bind to Integrin α IIb in platelets and is involved in signal transduction. CIB2 expression is significantly reduced in Laminin α -2 chain deficient muscle, but is unaffected in the mouse model for Duchenne muscular dystrophy. This indicates that CIB2 is likely involved in the pathogenesis of MDC1A, a congenital muscular dystrophy caused by mutations in the gene encoding Laminin α -2 chain. CIB2 also binds to Integrin α 7 and calcium, indicating that CIB2 has various functions in signalling pathways.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CIB2 (human) mapping to 15q25.1; Cib2 (mouse) mapping to 9 A5.3.

SOURCE

CIB2 (CIB2C12B11) is a mouse monoclonal antibody raised against a recombinant protein corresponding to the C-terminal region of CIB2 of human origin.

PRODUCT

Each vial contains 100 μ g IgG₁ in 1.0 ml of PBS with < 0.1% sodium azide and 1.0% stabilizer protein.

APPLICATIONS

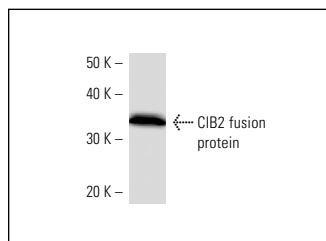
CIB2 (CIB2C12B11) is recommended for detection of CIB2 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for CIB2 siRNA (h): sc-89944, CIB2 siRNA (m): sc-105205, CIB2 shRNA Plasmid (h): sc-89944-SH, CIB2 shRNA Plasmid (m): sc-105205-SH, CIB2 shRNA (h) Lentiviral Particles: sc-89944-V and CIB2 shRNA (m) Lentiviral Particles: sc-105205-V.

Molecular Weight of CIB2: 22 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

DATA



CIB2 (CIB2C12B11): sc-81068 Western Blot analysis of human recombinant CIB2 fusion protein.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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