

Cml3 (L-16): sc-139325

BACKGROUND

Cml3 (camello-like protein 3), also known as probable N-acetyltransferase CML3, is a 226 amino acid multi-pass membrane protein that contains one N-acetyltransferase domain and belongs to the camello family. Cml3 may play a role in regulation of gastrulation, and is encoded by a gene that maps to mouse chromosome 6 C3. The human homolog of Cml3, known as NAT-8L, N-acetyltransferase 8-like protein, N-acetylaspartate synthetase or CML3 (camello-like protein 3), is a 302 amino acid protein that plays a role in the regulation of lipogenesis by producing N-acetylaspartate acid. Defects in NAT-8L are the cause of N-acetylaspartate deficiency (NACED), a metabolic disorder resulting in truncal ataxia, marked developmental delay, seizures and secondary microcephaly.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Cml3/Gm4477 (mouse) mapping to 6 C3.

SOURCE

Cml3 (L-16) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Cml3 of mouse origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-139325 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Cml3 (L-16) is recommended for detection of Cml3 and LOC100043497 of mouse origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other Cml family members.

Molecular Weight of Cml3: 26 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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 or our catalog for detailed protocols and support products.