

# Cml5 (F-14): sc-139334

## BACKGROUND

Acetyltransferases and deacetylases are protein groups most often associated with oncogenesis and cell cycle regulation. Cml5 (camello-like protein 5), also known as probable N-acetyltransferase CML5, is a 227 amino acid multi-pass membrane protein that contains one N-acetyltransferase domain and belongs to the camello family. Members of the camello family share sequence similarities to the *Xenopus* protein camello, which is expressed in the suprablastoporal zone of gastrulating embryos. *Xenopus* camello is believed to play a role in gastrulation movements by modifying the cell surface and extracellular matrix proteins passing through the secretory pathway. Other members of the camello family include Cml1, Cml2, Cml3, NAT-8, NAT-8L and NAT-8B5. Cml5 may play a role in regulation of gastrulation, and is encoded by a gene that maps to mouse chromosome 6 C3.

## REFERENCES

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4. Juhanson, P., et al. 2008. N-acetyltransferase 8, a positional candidate for blood pressure and renal regulation: resequencing, association and in silico study. *BMC Med. Genet.* 9 : 25.
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## CHROMOSOMAL LOCATION

Genetic locus: Cml5 (rat) mapping to 4q34.

## SOURCE

Cml5 (F-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of Cml5 of rat origin.

## STORAGE

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

## 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-139334 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

Cml5 (F-14) is recommended for detection of Cml5 of rat 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); may cross-react with Cml2.

## 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.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.