

# CERCAM (C-15): sc-246268

## BACKGROUND

CERCAM (cerebral endothelial cell adhesion molecule), also known as GLT25D3 (glycosyltransferase 25 family member 3), is a 595 amino acid protein that is localized to the endoplasmic reticulum. Despite belonging to the glycosyltransferase 25 family, CERCAM has no glucosyltransferase activity and very low, if any,  $\beta$ -galactosyltransferase activity. CERCAM is highly expressed in secretory and nervous tissues and likely functions as a cell adhesion protein that assists leukocyte transmigration across the blood-brain barrier. There are two isoforms of CERCAM that are produced as a result of alternative splicing events.

## REFERENCES

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- Steeber, D.A. and Tedder, T.F. 2000. Adhesion molecule cascades direct lymphocyte recirculation and leukocyte migration during inflammation. *Immunol. Res.* 22: 299-317.
- Starzyk, R.M., et al. 2000. Cerebral cell adhesion molecule: a novel leukocyte adhesion determinant on blood-brain barrier capillary endothelium. *J. Infect. Dis.* 181: 181-187.
- Muller, W.A. 2003. Leukocyte-endothelial-cell interactions in leukocyte transmigration and the inflammatory response. *Trends Immunol.* 24: 327-334.
- Schegg, B., et al. 2009. Core glycosylation of collagen is initiated by two  $\beta(1-O)$ galactosyltransferases. *Mol. Cell. Biol.* 29: 943-952.
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- Greenwood, J., et al. 2010. Leukocyte-endothelial cell crosstalk at the blood-brain barrier: A prerequisite for successful immune cell entry to the brain. *Neuropathol. Appl. Neurobiol.* 37: 24-39.

## CHROMOSOMAL LOCATION

Genetic locus: CERCAM (human) mapping to 9q34.11.

## SOURCE

CERCAM (C-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of CERCAM of human origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-246268 P, (100  $\mu$ g 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

CERCAM (C-15) is recommended for detection of CERCAM of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Suitable for use as control antibody for CERCAM siRNA (h): sc-92783, CERCAM shRNA Plasmid (h): sc-92783-SH and CERCAM shRNA (h) Lentiviral Particles: sc-92783-V.

Molecular Weight of CERCAM: 68/59 kDa.

## 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) 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.

## 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.