CEACAM5 (h2): 293T Lysate: sc-170027



The Power to Question

BACKGROUND

The CD66 (carcinoembryonic antigen, CEA, biliary glycoprotein I, BGP-1, CEACAM) immunoglobulin superfamily of genes encode cell adhesion proteins, which are expressed at higher levels in tumorous tissues than in normal tissues. The human CD66 gene family is a diverse set of glycoproteins of epithelial and hematopoietic lineage that comprises 29 genes, which map to chromosome position 19q13.2. CD66A, CD66B, CD66C, CD66D, CD66E and CD66F are the best characterized CD66 antigens, and CD66A-D expression upregulates on the surface of granulocytes upon stimulation. Certain CD66 family members mediate homotypic and heterotypic intercellular adhesion events. CD66E, also known as CEA, is a well known tumor marker and a heavily glycosylated GPI-linked cell surface molecule.

REFERENCES

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- 7. Skubitz, K., et al. 1995. CD66 family members are associated with tyrosine kinase activity in human neutrophils. J. Immunol. 155: 5382-5390.
- Zimmer, R. and Thomas, P. 2001. Mutations in the carcinoembryonic antigen gene in colorectal cancer patients: implications on liver metastasis. Cancer Res. 61: 2822-2826.

CHROMOSOMAL LOCATION

Genetic locus: CEACAM5 (human) mapping to 19q13.2.

PRODUCT

CEACAM5 (h2): 293T Lysate represents a lysate of human CEACAM5 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

CEACAM5 (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive CEACAM5 antibodies. Recommended use: 10-20 μ l per lane.

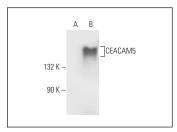
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

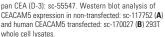
pan CEA (D-3): sc-55547 is recommended as a positive control antibody for Western Blot analysis of enhanced human CEACAM5 expression in CEACAM5 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

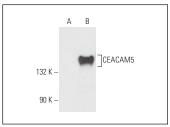
RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA







CEACAM5 (CI-P83-1): sc-23928. Western blot analysis of CEACAM5 expression in non-transfected: sc-117752 (A) and human CEACAM5 transfected: sc-170027 (B) 293T whole cell IVsates.

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.