

# Novocastra™ Liquid Mouse Monoclonal Antibody Carcinoembryonic Antigen (CD66e)

**Product Code: NCL-L-CEA-2**

<b>Intended Use</b>	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.
<b>Specificity</b>	Human carcinoembryonic antigen (CD66e).
<b>Clone</b>	12-140-10
<b>Ig Class</b>	IgG1
<b>Antigen Used for Immunizations</b>	CEA isolated from liver metastasis of colorectal carcinomas by PCA extraction followed by ion exchange and gel filtration chromatography.
<b>Hybridoma Partner</b>	Mouse myeloma (X63-Ag8).
<b>Preparation</b>	Liquid tissue culture supernatant containing sodium azide. Volume as indicated on vial label.
<b>Effective on Frozen Tissue</b>	Yes.
<b>Effective on Paraffin Wax Embedded Tissue</b>	Yes.
<b>Recommendations on Use</b>	Immunohistochemistry on paraffin sections. <b>Enzyme Induced Epitope Retrieval (EIER):</b> Please follow the instructions for use in Novocastra Enzyme Proteinase K (IHC). <b>Suggested dilution:</b> 1:200 for 30 minutes at 25 °C. This is provided as a guide and users should determine their own optimal working dilutions. <b>Visualization:</b> Please follow the instructions for use in the Novolink™ Polymer Detection Systems. For further product information or support, contact your local distributor or regional office of Leica Biosystems, or alternatively, visit the Leica Biosystems Web site, <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a> <u>The performance of this antibody should be validated when utilized with other manual staining systems or automated platforms.</u>
<b>Positive Controls</b>	Immunohistochemistry: Colonic adenocarcinoma.
<b>Staining Pattern</b>	Cytoplasmic and luminal membrane.
<b>Storage and Stability</b>	Store liquid antibody at 2-8 °C. Under these conditions, there is no significant loss in product performance up to the expiry date indicated on the vial label. Prepare working dilutions on the day of use.
<b>Warnings and Precautions</b>	This reagent has been prepared from the supernatant of cell culture. As it is a biological product, reasonable care should be taken when handling it. This reagent contains sodium azide. A Material Safety Data Sheet is available upon request or available from <a href="http://www.LeicaBiosystems.com">www.LeicaBiosystems.com</a>



**General Overview**

Carcinoembryonic antigen (CD66e) is a heterogeneous cell surface glycoprotein produced by cells of fetal colon. Low levels are also found on normal mucosal epithelia of the adult colon and a variety of other normal tissues. CD66e is encoded by the CEA gene that is located on chromosome 19. It is a member of the CEA gene family, which in turn is a subfamily of the immunoglobulin superfamily. Cell adhesion properties are now well recognized for CD66e. It is believed that the expression of this glycoprotein in conjunction with other known adhesion molecules will influence cell-cell interaction.

**General References**

- Sanders D S, Wilson C A, Bryant F J, et al.. Gut. 35 (8): 1022–1025 (1994).  
Börner O P. ISBN 82–7633–014–2 (1992).  
Börner O P. Clinical Chemistry. 37: 231–236 (1991).  
Nishi M, Inazawa J, Inoue K, et al.. Cancer Genetics and Cytogenetics. 54: 77–81 (1991).  
Börner O P and Nustad K. Journal of Immunological Methods. 127: 171–178 (1990).  
Börner O P. Journal of Immunological Methods. 121:85–93 (1989).  
Roitt I, et al.. Immunology Second Edition 1989.  
Ellis I O and Hitchcock A. Pathology. 41: 1064–1067 (1988).  
Pflatz M, Odermatt B, Christen B, et al.. Virchows Archiv A-Pathological Anatomy and Histopathology. 411 (4): 387–393 (1987).  
Thompson J A, Pande H, Paxton R J, et al.. Proceedings of the National Academy of Sciences. 84: 2965–2969 (1987).  
Börner O P. Clinical Biochemistry. 15: 128–132 (1982).