

# Antibodies against the human cancer-implicated adhesion-receptor-molecule CEACAM1

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[Previous page](#) ↩

[1]

<b>Country:</b>	<b>Region:</b>
Germany	West Europe
<b>Logo</b>	<b>Organisation name:</b>

**Title:**

## Antibodies against the human cancer-implicated adhesion-receptor-molecule CEACAM1



**Keywords:**

**Market:**Diagnostic, Oncology , Pharmaceuticals/fine chemicals , Therapeutic  
**Technology:**Cytology, Cancerology, Oncology, Diagnostics, Diagnosis ,  
**Pharmaceutical Products / Drugs NACE:**Research and experimental development on biotechnology

**Description:**

CEACAM1 is a member of the carcinoembryonic antigen related cell adhesion molecule (CEACAM)-family. The transmembrane glycoprotein is expressed on leukocytes, epithelium and endothelium cells.

CEACAM1 plays a central role in following:

- the formation of new blood and lymphatic vessels,
- the regulation of cell growth, tumor suppression,
- the metastasis formation of tumor cells
- as well as in immunomodulation.

CEACAMs are structurally closely related: they feature the function triggering N-domain and a C-domain consisting of A- and B-domains. Due to the structural similarity it is very challenging to obtain antibodies against specific CEACAM1-domains. CEACAM1 has been detected at elevated levels in the surrounding tissue of tumors and the tumors

themselves. It appears that CEACAM1 is a suitable biomarker for the diagnosis and staging of tumors.

The present invention of a German university relates to an antibody that exhibits a high affinity and mono-specificity for the A1/B-domains of human CEACAM1. Thus, it is suitable to detect the membrane anchored, the cleaved soluble CEACAM1 and most of its derivatives.

This antibody is of use in several research applications, including enzyme-linked immunosorbent assays (ELISA), immunoprecipitation (IP), immunohistochemistry (IHC), fluorescence microscopy and flow cytometry. In addition, the monoclonal antibody (mAb) is suitable for use as a diagnostic tool for the detection of inflammatory disorders (e.g. sepsis, multiple sclerosis) as well as for solid tumors, and applies for therapy monitoring of the latter.

Licensees are sought to implement the antibody in any of the above applications. Potential partners are from pharmaceutical industry active in cancer research and diagnostics.

#### Stage of development:

**Stage of Development:** Under development/lab tested

**Comments Regarding Stage of Development:** Cancer patient data have been generated that support the diagnostic potential.

**IPR status:** Patent(s) applied for but not yet granted

**Comments Regarding IPR Status:** A German patent application has been filed.

**Profile Origin:** Private (in-house) research

#### Key Benefits:

New invention:

- Monoclonal antibody directed against the A1/B-domains of human CEACAM1
- High affinity and mono-specificity
- Detects membrane anchored and soluble human CEACAM1 and most of its derivatives
- Suitable for numerous applications: -  
in cancer research -  
in diagnosis -  
in therapy monitoring -  
as immune-modulator in the therapy of tumors, infections and inflammations

#### Applications:

#### Patent status:

To read more, please click [here](#) [2].

#### Commercial Partnering:

## Partner Sought

**Type and Role of Partner Sought:** Licensees from pharmaceutical industry are sought, who are interested in commercial use of the antibody in research, diagnostics and / or therapeutic applications.

**Type of Partnership Considered:** License agreement

To read more, please click [here](#) [2].

Document (NCD) download:

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Previous page ↶

[1]

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