

anti-human CD66de (CEACAM3/5) PE-conjugated

PE- conjugated monoclonal antibody 308/3-3 to human CD66de (CEACAM3/5)

Cat-No: 21602664

500 µl

Clone: 308/3-3

Specificity: The antibody 308/3-3 recognizes the CEACAM5 (CEA) antigen, a 180 kDa GPI-anchored glycoprotein expressed on various human epithelial cells and the CEACAM3 antigen, a 35 kDa transmembrane-anchored glycoprotein expressed sole on human granulocytes.

Isotype subclass: Mouse IgG1 kappa

Form: The purified antibody is conjugated with R-Phycoerythrin (R-PE) under optimum conditions. The reagent is adjusted for direct use. No reconstitution is necessary

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing 1 % BSA and 0.09 % sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. Avoid prolonged exposure to light

Application: Flow Cytometry

Background: CD66e, also known as CEACAM5 (Carcinoembryonales Antigen (CEA)-related Cell Adhesion Molecule 5, is a glycosyl phosphatidyl inositol- (GPI-) anchored glycoprotein. CEACAM5 and related genes make up the CEA family belonging to the immunoglobulin superfamily. CD66e is involved in cell adhesion. Additionally it serves as pathogen receptor (e.g. Helicobacter pylori, Neisseria, Moraxella, Candida albicans). Antibodies to CEACAM5 are commonly used in immunohistochemistry to identify cells expressing the glycoprotein in tissue samples. However, CEACAM5 is also found in serum where it can be used as a tumor marker. In adults, CEACAM5 is primarily expressed in epithelia of the gastrointestinal tissue often together with CEACAM1, CEACAM6 and CEACAM7.

CD66d (CEACAM3) is TM-anchored glycoprotein with signalling properties* and also serves as pathogen receptor. In adults it is expressed in granulocytes together with CEACAM1, CEACAM6 and CEACAM8.

References:

- *) Gebauer F et al.: Carcinoembryonic antigen-related cell adhesion molecules (CEACAM) 1, 5 and 6 as biomarkers in pancreatic cancer. PLoS One. 2014 Nov 19;9(11):e113023.
- *) Pils et al.: CEACAM3: an innate immune receptor directed against human-restricted bacterial pathogens. Int J Med Microbiol. 2008 Oct;298(7-8):553-60.
- *) Singer BB: CEACAMs. Encyclopedia of Signaling Molecules 01/2016.

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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