Product Datasheet

CD66adecb (CEACAM1/3/5/6/8) monoclonal antibody

Catalogue Code: AGIM0164

Antibody Data

Product SKU:	AGIM0164	**Clone**	6G5j
Applications:	FC	**Conjugate**	Unconjugated
Reactivity:	Human		

Immunogen Information:

Host Species: Mouse

Isotype: IgG1 kappa

Storage: Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles

Background:

The monoclonal antibody reacts with an antigen epitope shared by CD66a, b, c, d and e. CD66adecb are members of the CEA (carcinoembryonic antigen) family of the Ig superfamily. CEACAMs (Carcinoembryonic antigen-related (CEA) cell adhesion molecules) are highly glycosylated membrane anchored proteins. CEACAM genes make up the CEA family belonging to the immunoglobulin superfamily. CEACAMs are involved in cell adhesion. Except CEACAM8 they also serve as pathogen receptors (e.g. Helicobacter pylori, Neisseria, Moraxella, Candida albicans). Immunologically they are characterized as members of the CD66 cluster of differentiation. Antibodies against CEACAMs are commonly used in immunohistochemistry and flow cytometry to identify cells expressing the glycoprotein in tissue samples and cell culture. However, CEACAM1, 5 and 6 are also found in serum where they can be used as tumor markers. In adults, CEACAM1, 5, and 6 are expressed in some epithelia, CEACAM1, 3, 6 and 8 in granulocytes and CEACAM1 in defined microvascular endothelial cells. CD66a (CEACAM1) is mainly expressed on granulocytes, binds to CD66a,c e and CD62E. CD66b (CEACAM8) is expressed exclusively on granulocytes and used as granulocyte marker. It has been reported to induce activation in neutrophils and to be involved in heterophilic adhesion with CD66c. CD66c (CEACAM6) is expressed on granulocytes and epithelial cells. The ligands of CD66c are CD66a-e, CD62E and Galectins. CD66d (CEACAM3) is expressed by neutrophils and serves as a microbial receptor for a wide range of microorganisms. CD66e molecule is also called (CEACAM5) is primarily found on epithelial cells. CD66e binds to CD66a, c and e.

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