

anti-human CD66b (CEACAM8) APC-conjugated

APC-conjugated monoclonal antibody 6/40c to human CD66b (CEACAM8)

Cat-No: 21609666

500 µl

Clone: 6/40c

Specificity: The monoclonal antibody 6/40c is a 95-100 kD glycosylphosphatidylinositol (GPI)-linked protein also known as CEACAM8, CD67, CGM6, and NCA-95.

Isotype subclass: Mouse IgG1 kappa.

Form: The purified antibody is conjugated with cross-linked Allophycocyanin (APC) 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: **CD66b**, also known as CEACAM8 (Carcinoembryonic antigen-related (CEA) cell adhesion molecule 8, is a glycosyl phosphatidyl inositol- (GPI-) anchored glycoprotein. CD66b and related genes make up the CEA family belonging to the immunoglobulin superfamily. It is involved in cell cell communication*. In contrast to other members of the CEACAM gene family it does NOT serve as pathogen receptor (e.g. for *Helicobacter pylori*, *Neisseria*, *Moraxella*, *Candida albicans*). Immunologically CEACAMs are characterized as members of the CD66 cluster of differentiation. Antibodies to CD66b are commonly used in flow cytometry to distinguish granulocytes from other subtypes of leukocytes (B- and T-cells, NK-cells, Monocytes, DCs) In adults CEACAM8 is expressed in granulocytes together with CEACAM1, CEACAM3 and CEACAM6.

References:

- 1.) Singer BB, Scheffrahn I, Heymann R, et al. (2002). "Carcinoembryonic antigen-related cell adhesion molecule 1 expression and signaling in human, mouse, and rat leukocytes: evidence for replacement of the short cytoplasmic domain isoform by glycosylphosphatidylinositol-linked proteins in human leukocytes". *J. Immunol.* 168 (10): 5139–46.
- 2.) Oikawa S, Sugiyama M, Kuroki M, et al. (2001). "Extracellular N-domain alone can mediate specific heterophilic adhesion between members of the carcinoembryonic antigen family, CEACAM6 and CEACAM8". *Biochem. Biophys. Res. Commun.* 278 (3): 564–8.

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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