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AM12142RP-N
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Monoclonal Antibody to CD66a/c/d/e - PE

Alternate names: CEACAM1, CEACAM3, CEACAM5, CEACAM6

Catalog No.: AM12142RP-N
Quantity: 100 Tests

Background: The CD66 molecules are 180-200 kDa glycoproteins of carcinoembryonic antigen family.

They are present on all blood granulocytes and some tissue macrophages, but are absent

from other hematopoietic cells. The expression of CD66 increases significantly on

granulocytes upon their activation. CD66a (BGP1, CEACAM1) and CD66d (CGM1, CEACAM3), as well as CEACAM2 and 4, are transmembrane proteins, whereas CD66c (CEAL, NCA, CEACAM6) and CD66e (CEA, CEACAM5), as well as CEACAM7 and 8, are anchored to the plasma membrane by C-terminal glycosylphosphatidylinositol (GPI) lipid moiety.

Host / Isotype: Mouse / IgG1

Recommended Isotype Controls:

SM10R (for use in human samples)

Clone: CLB-gran/10

Immunogen: Human granulocytes

Format: State: Liquid purified Ig fraction

Buffer System: Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2%

(w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent **Label:** PE – Conjugated with R-Phycoerythrin under optimum conditions. The conjugate is

purified by size-exclusion chromatography and adjusted for direct use

Applications: Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood

or 10e6 cells in a suspension.

The content of a vial (2 ml) is sufficient for 100 tests.

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody detects human CD66acde antigen, a granulocyte marker, especially after cell

stimulation. The antibody does not cross-react with normal human peripheral B cells, T cells, monocytes and platelets. Weak reactivity has been observed with malignant cells of pacients with B cell-derived CLL. In immunohistochemistry the antibody reacts with some

tissue macrophages and carcinoma-expressed CEA.

Species Reactivity: Tested: Human

Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should

be protected from light.

Shelf life: one year from despatch.

General Readings: 1. Singer BB, Scheffrahn I, Kammerer R, Suttorp N, Ergun S, Slevogt H. Deregulation of the

CEACAM expression pattern causes undifferentiated cell growth in human lung

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com



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adenocarcinoma cells. PLoS One. 2010 Jan 18;5(1):e8747. doi: 10.1371/journal.pone.0008747. PubMed PMID: 20090913.

- 2. Tetteroo PA, Bos MJ, Visser FJ, von dem Borne AE. Neutrophil activation detected by monoclonal antibodies. J Immunol. 1986 May 1;136(9):3427-32. PubMed PMID: 2937846.
- 3. Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
- 4. Nagel G, Grunert F, Kuijpers TW, Watt SM, Thompson J, Zimmermann W. Genomic organization, splice variants and expression of CGM1, a CD66-related member of the carcinoembryonic antigen gene family. Eur J Biochem. 1993 May 15;214(1):27-35. PubMed PMID: 8508798.
- 5. Teixeira AM, Fawcett J, Simmons DL, Watt SM. The N-domain of the biliary glycoprotein (BGP) adhesion molecule mediates homotypic binding: domain interactions and epitope analysis of BGPc. Blood. 1994 Jul 1;84(1):211-9. PubMed PMID: 7517208.

Pictures:

Immunohistochemistry staining of human colon (paraffin sections) using anti-CD66acde CatNo AM12142PU-N (clone CLB-gran/10).

Surface staining of human peripheral blood cells with anti-CD66acde monoclonal antibody (clone CLB-gran/10).



