

Anti-Human CD66b-162Dy

Catalog #: 3162023B

Package Size: 100 tests

Storage: Store product at 4°C. Do not freeze.

Cross Reactivity: Human

Clone: 80H3

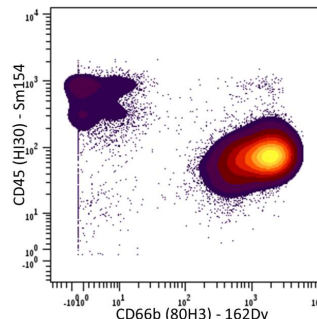
Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human lysed and fixed whole blood stained with 154Sm-anti-CD45 (HI30) and 162Dy-anti-CD66b (80H3).

Description

CD66b (CEACAM8, CGM6, NCA-95) is a single chain GPI-anchored glycoprotein of 95-100 kDa, and is a member of the Ig superfamily, more specifically the human carcinoembryonic Ag (CEA) family. CEAs are widely used as colorectal carcinoma tumor markers but are expressed in normal tissues and during fetal development. Indeed, CD66b is exclusively expressed on human granulocytes and is used as a marker of granulocyte activation. However, the functions of this molecule are largely unknown in eosinophils. Under normal conditions, neutrophils have minimal expression of CD66b, but incubation in vitro with inflammatory agonists, rapidly increases this expression. The eosinophil expression of CD66b is also enhanced in vitro by incubation with activated lymphocytes or with IL-5.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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