abcam

ab325956

Anti-CD66b antibody [EPR27440-29] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR27440-29
Purification technique	Affinity purification Protein A
Concentration	1.045 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-

Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Flow Cyt (Intra)

Tested

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Expected

Species	Human
Dilution info	Use at an assay dependent concentration.
Notes	-

ICC/IF

Tested

Species	Human
Dilution info	-
Notes	-

Not recommended

Species	Transfected cell line - Human
Dilution info	-
Notes	-

Target data

See full target information CEACAM8

Function	Cell surface glycoprotein that plays a role in cell adhesion in a calcium-independent manner (PubMed:11590190, PubMed:2022629, PubMed:8776764). Mediates heterophilic cell adhesion with other carcinoembryonic antigen-related cell adhesion molecules, such as CEACAM6 (PubMed:11590190, PubMed:2022629, PubMed:8776764). Heterophilic interaction with CEACAM8 occurs in activated neutrophils (PubMed:8776764).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab325956 is the carrier-free version of ab322980

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready
Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.

Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with 1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.

Compatibility
This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

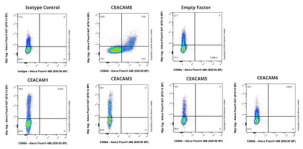
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

4 product images



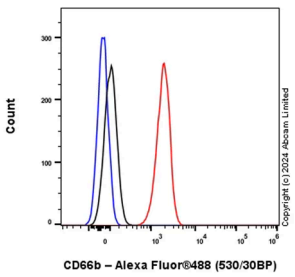
Flow Cytometry (Intracellular) - Anti-CD66b antibody [EPR27440-29] - BSA and Azide free (ab325956)

CD66b Flow Cytometry (Intracellular) staining using rabbit Anti-CD66b antibody

This data was developed using ab322980, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of 2% paraformaldehyde fixed 0.1% Tween-20 permeabilized Isotype (Upper Left) / 293T (human embryonic kidney epithelial cell) transfected with an CEACAM8 expression vector containing a myc-His-tag® (Upper Middle) / 293T cells transfected with an empty expression vector containing a myc-His-tag® (Upper Right) / 293T cells transfected with homologous human CEACAM expression vector (CEACAM1 CEACAM3 CEACAM5 CEACAM6) containing a myc-His-tag® (Lower) cells labelling CD66b with ab322980 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488 ab150081) at 1/5000 dilution was used as the secondary antibody.



Flow Cytometry - Anti-CD66b antibody [EPR27440-29] - BSA and Azide free (ab325956)

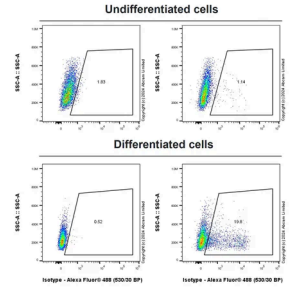
CD66b Flow Cytometry staining using rabbit Anti-CD66b antibody

This data was developed using ab322980, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Human purified neutrophils labelling CD66b with ab322980 at 1/5000 dilution (0.01 ug)/Red compared with a Rabbit monoclonal IgG (ab172730) (Black) isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488 ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.



Flow Cytometry - Anti-CD66b antibody [EPR27440-29] - BSA and Azide free (ab325956)

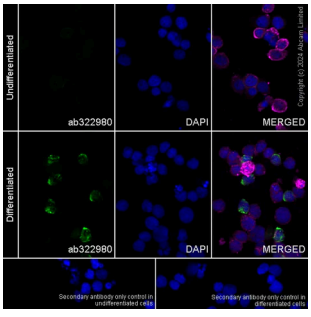
CD66b Flow Cytometry staining using rabbit Anti-CD66b antibody

This data was developed using ab322980, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of HL-60 (human acute promyelocytic leukemia promyeloblast) undifferentiated cells (Upper left and right) / HL-60 cells differentiated with 1.25% DMSO for 5 days (Lower left and right) cells labelling CD66b with ab322980 at 1/500 dilution (0.1ug) / Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control and an unlabelled control (cells without incubation with primary antibody and secondary antibody).

Goat Anti-Rabbit IgG (Alexa Fluor® 488 ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells.



Immunocytochemistry/ Immunofluorescence - Anti-CD66b antibody [EPR27440-29] - BSA and Azide free (ab325956)

CD66b Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-CD66b antibody

This data was developed using ab322980, the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed 0.1% TritonX-100 permeabilized HL-60 (human acute promyelocytic leukemia promyeloblast) cells labelling CD66b with ab322980 at 1/50 (10.24 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2ug/ml) dilution (Green).

Confocal image showing increased cytoplasmic staining in differentiated HL-60 cells (treatment with DMSO (1.25%) for 5 days shown in green). The counterstain was observed in magenta.

Nuclear DNA was labelled with DAPI (shown in blue). Image was taken with a confocal microscope (Leica-Microsystems TCS SP8).

ab195889 Anti-alpha Tubulin mouse monoclonal antibody - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 (2.5ug/ml) dilution (Magenta).

Secondary antibody only control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2ug/ml) dilution.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.