abcam

Product datasheet

Anti-CD15 antibody [MMA] ab17080

3 Images

Overview

Product name	Anti-CD15 antibody [MMA]
Description	Mouse monoclonal [MMA] to CD15
Host species	Mouse
Tested applications	**Suitable for:** IHC-Fr, Flow Cyt, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: Human Hodgkin Lymphoma. Flow Cytometry: Human whole blood IHC-Fr: Human Spleen
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.02% Sodium azide Constituent: PBS
Clonality	Monoclonal
Clone number	MMA
Isotype	IgM
Light chain type	kappa

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab17080 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

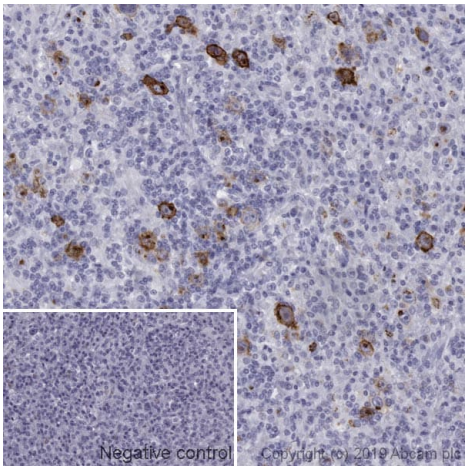
Application	Abreviews	Notes
IHC-Fr		Use a concentration of 1 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml.
IHC-P		Use a concentration of 1 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Target

Relevance CD15 is a carbohydrate adhesion molecule (and not a protein) that mediates phagocytosis and chemotaxis. Synthesis is directed by FUT4 in lymphoid cells and mature granulocytes, and by FUT9 in promyelocytes and monocytes.

Cellular localization Golgi Apparatus; Membrane-bound form in trans cisternae of Golgi.

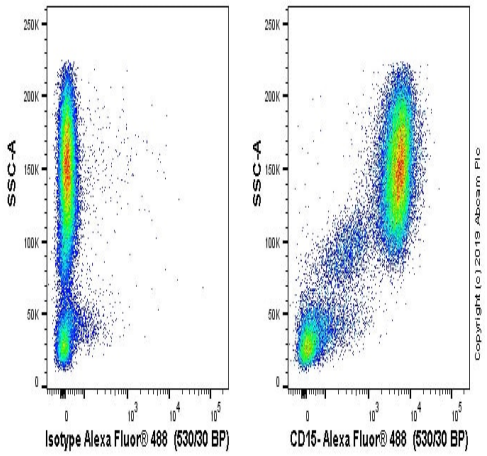
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD15 antibody [MMA] (ab17080)

IHC image of CD15 staining in Human tonsil formalin fixed paraffin embedded tissue section*. The section was pre-treated using pressure cooker heat mediated antigen retrieval with sodium citrate buffer (pH6). The section was incubated with ab17080, 1µg/ml, for 15 mins at room temperature. A Goat polyclonal Secondary Antibody to Mouse IgM secondary antibody (**ab97230**) was used to detect the primary, and visualized using an HRP conjugated ABC system. The section was counterstained with haematoxylin and mounted with DPX.

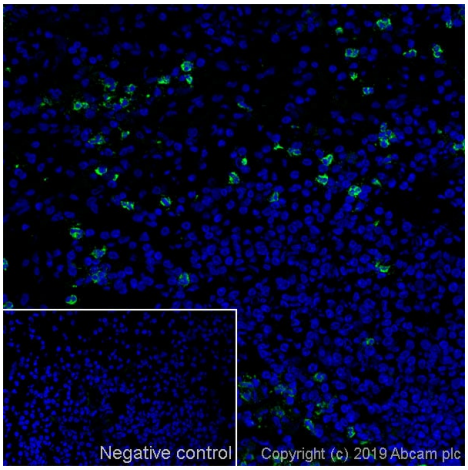
*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Flow Cytometry - Anti-CD15 antibody [MMA] (ab17080)

Human whole blood stained with ab17080 (right) or mouse IgM isotype control **ab91545** (left). Red blood cells of 200ul human whole blood were lysed, then cells were incubated for 30 min on ice in 1x PBS containing 10ug/ml human IgG and 10 % normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab17080) or IgM isotype control (**ab91545**) (100ul at 1ug/ml) for 30 min on ice.

The secondary antibody Goat Anti-Mouse IgM mu chain (Alexa Fluor® 488) (**ab150121**) was used at 1/2000 dilution for 30 min at 4° C. Acquisition of >30,000 events were collected using a 50 mW Blue laser (488nm) and 530/30 bandpass filter. Events were collected with the forward and side light-scatter characteristics of viable cells.



Immunohistochemistry (Frozen sections) - Anti-CD15 antibody [MMA] (ab17080)

IHC image of CD15 staining in a section of frozen normal human spleen*. The section was fixed using 10% formaldehyde in 1XPBS for 10 minutes. No antigen retrieval step was performed prior to staining. Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M glycine and 1% (w/v) BSA for 1h at room temperature. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab17080 at 1µg/ml. The section was then incubated with **ab150117** (Goat Anti-Mouse IgG H&L (Alexa Fluor® 488), 1/1000)) (shown in green) for 1 hour at room temperature. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. The secondary-only control insert image is taken from an identical assay without primary antibody. The section was then mounted using Fluoromount®. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). For IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antibody concentrations and incubation times. *Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.

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