abcam

ab281744

Alexa Fluor® 555 Anti-CD15 antibody [SP159]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	Alexa Fluor® 555
Excitation/Emission	Ex: 555nm, Em: 565nm
Storage buffer	pH: 7.2 - 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	SP159
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IHC-P

Tested

Species	Human

Dilution info	1/100
Notes	-

Flow Cyt

Expected

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

Target data

See full target information CD15

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle, Store in the dark

Notes

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.

Alexa Fluor® is a registered trademark of Molecular Probes, Inc, a Thermo Fisher Scientific Company. The Alexa Fluor® dye included in this product is provided under an intellectual property license from Life Technologies Corporation. As this product contains the Alexa Fluor® dye, the purchase of this product conveys to the buyer the non-transferable right to use the purchased product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). As this product contains the Alexa Fluor® dye the sale of this product is expressly conditioned on the buyer not using the product or its components, or any materials made using the product or its components, in any activity to generate revenue, which may include, but is not limited to use of the product or its components: in manufacturing; (ii) to provide a service, information, or data in return for payment (iii) for therapeutic, diagnostic or prophylactic purposes; or (iv) for resale, regardless of whether they are sold for use in research. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, 5781 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@thermofisher.com.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CD15 also known as Lewis x or 3-fucosyl-N-acetyllactosamine is a carbohydrate antigen with a molecular mass typically not individually defined due to its nature as a glycan. CD15 is expressed on the surface of many human cells including neutrophils and various epithelial cells. It is commonly associated with granulocytes and is used as a cell surface marker. The presence of CD15 can be identified using CD15 antibodies through techniques such as CD15 flow cytometry and CD15 APC labeling.
Biological function summary	CD15 is important in cell-cell interaction mechanisms. It plays a role in mediating adhesion processes particularly in immune responses where it aids neutrophils in adhering to vascular endothelium and transmigrating to sites of infection or inflammation. As a glycoconjugate CD15 forms part of a larger glycoprotein complex on the cell surface interacting with other proteins to facilitate cellular responses and movement.
Pathways	CD15's function as an adhesion molecule ties into key cellular processes such as the selectin pathway. In this pathway it interacts with proteins like E-selectin and L-selectin contributing to leukocyte rolling and extravasation during the immune response. Additionally CD15 is implicated in the signaling pathways that mediate inflammatory responses where its role in neutrophil dynamics is important.
Associated diseases and disorders	CD15 has notable implications in Hodgkin's lymphoma and certain myeloid leukemias. It is frequently used as a diagnostic marker in these conditions where its overexpression or abnormal expression patterns may signify disease presence or progression. CD15's interaction with other proteins such as CD30 in Hodgkin's lymphoma highlights its utility in understanding the pathological mechanisms and potential therapeutic targets of these disorders.

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.

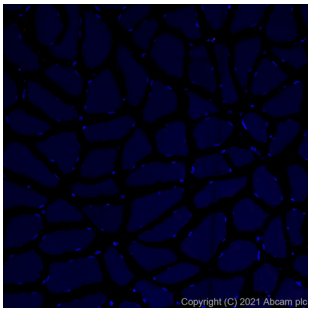
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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.

---

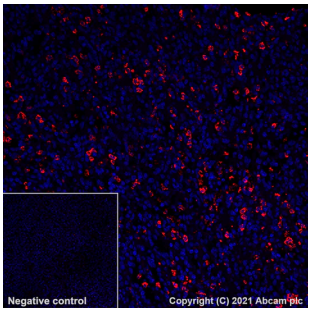
3 product images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 555 Anti-CD15 antibody [SP159] (ab281744)

CD15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD15 antibody

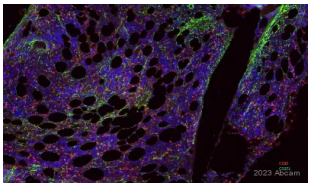
Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue labelling CD15 with ab281744 at 1/100 dilution (5.0 µg/ml). **Negative control:** no staining on human skeletal muscle. The section was then incubated overnight at +4°C in TBS containing 0.025% (v/v) Triton X-100 and 1% (w/v) BSA with ab281744 at 1/100 dilution (shown in red). Nuclear DNA was labeled with DAPI (shown in blue). The section was then mounted using Fluoromount®.Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 1% (w/v) BSA for 1h at room temperature. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). Counterstained with DAPI.
Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 555 Anti-CD15 antibody [SP159] (ab281744)

CD15 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-CD15 antibody

Immunohistochemical analysis of paraffin-embedded human spleen tissue labelling CD15 with ab281744 at 1/100 dilution (5.0 µg/ml). Positive staining on human spleen. 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 ab281744 at 1/100 dilution (shown in red). Nuclear DNA was labeled with DAPI (shown in blue). The section was then mounted using Fluoromount®.Non-specific protein-protein interactions were then blocked in TBS containing 0.025% (v/v) Triton X-100, 0.3M (w/v) glycine and 1% (w/v) BSA for 1h at room temperature. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). Counterstained with DAPI.
Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0)



This image is courtesy of a customer review submitted by Natalie Papazian

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Alexa Fluor® 555 Anti-CD15 antibody [SP159] (ab281744)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human MM Bone marrow tissue co-staining with Recombinant Anti-p75 NGF Receptor/CD271 antibody [EP1039Y] - BSA and Azide free (ab256584) (green). Samples were incubated with PBS + 2% FCS + 2% Nhus for 16 hours at 4 degrees. Heat mediated Tris EDTA Ph9.

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