

Mouse CD71 Monoclonal Antibody | anti-CD71 antibody

MOUSE ANTI RAT CD71:Low Endotoxin

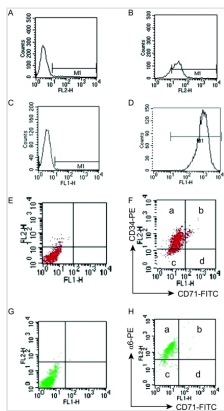
CATALOG #	HOST	APPLICATIONS
AAA49139	Mouse	Western Blot, Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay, Immunohistochemistry

PRODUCT SYNONYMS

CD71; Monoclonal Antibody; MOUSE ANTI RAT CD71:Low Endotoxin; anti-CD71 antibody

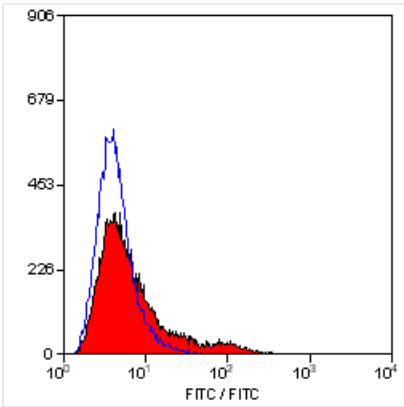
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	OX-26
Form/Format	Low Endotoxin Purified IgG - liquid
Concentration	IgG concentration 1.0 mg/ml (varies by lot)
Sequence Length	622
Applicable Applications for anti-CD71 antibody	WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Target Species	Rat
Preparation and Storage	Store at -20 degree C only. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use. Shelf Life: 18 months from date of despatch.



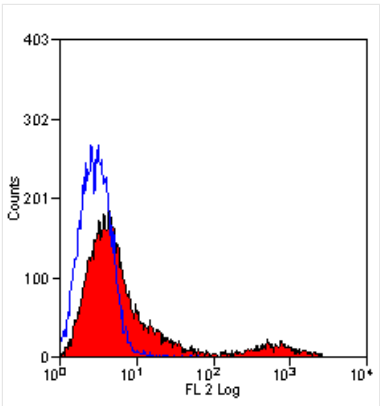
Application Data

Published customer image: FITC conjugated Mouse anti Rat CD71 antibody, clone OX-26 used for flow cytometryImage caption:Flow cytometric analysis of follicle stem cells separated by Vario MACS. (a -d) Single-color flow cytometric analysis of the selected follicle stem cells. X axis represents fluorescence intensity, and Y axis represents cell number. (a) Bulge region cell suspension without antibody staining was used as control. (b) CD34bri cells were isolated by Vario MACS. (c) Control for a6 separation. (d) a6bri cells were isolated by Vario MACS. (e - h) Two-color flow cytometric analysis of follicle stem cells selected by Vario MACS. Cells were divided into four subpopulations: a PEbri FITCdim cells; b PEbri FITCbri cells; c PEdim FITCdim cells; and d PEdim FITCbri cells. (e) Control. (f) CD71 and CD34 was detected with FITC (X axis) and with PE (Y axis). The majority of the isolated cells were CD34briCD71dim cells, characterized by high level expression of CD34 and low level of CD71. No CD34dimCD71bri cells were detected in our experiments. (g) Control for a6 and CD71 combined separation; (h) The a6briCD71dim cells were the main subpopulation of the separated cells.From: Huang E, Lian X, Chen W, Yang T, Yang L. Characterization of rat hair follicle stem cells selected by vario magnetic activated cell sorting system. Acta Histochem Cytochem. 2009 Oct 30;42(5):129-36.



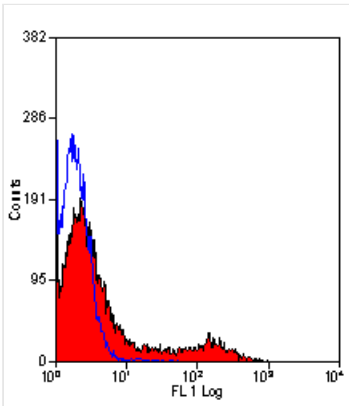
Application Data

Staining of rat spleen lymphocytes with Mouse anti Rat CD71



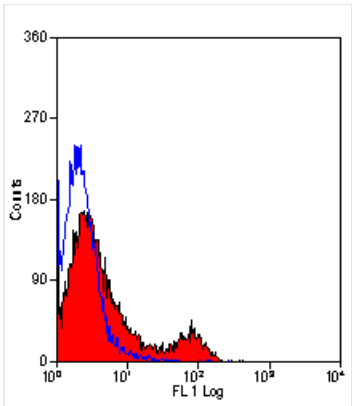
Application Data

Staining of rat spleen cells with Mouse anti Rat CD71:RPE



Application Data

Staining of mouse spleen with Mouse anti Rat CD71:Biotin



Application Data

Staining of mouse spleen cells with Mouse anti Rat CD71:Low Endotoxin

ADDITIONAL INFORMATION

Related Product Information for anti-CD71 antibody	Mouse anti Rat CD71 antibody, clone OX-26 recognizes rat CD71, also known as transferrin receptor, a homodimeric type II transmembrane protein, expressed by all proliferating cells and cells with a requirement for iron, including reticulocytes and capillary endothelium in brain. Clone OX-26 also binds to a number of non-dividing normal tissues. The balance between a sufficient amount of iron uptake and prevention of accumulation of excess iron within a cell, is vitally important to maintain cellular functions such as oxygen and electron transport and mitochondrial energy metabolism, whilst preventing permanent cell and tissue damage. Transferrin receptor (CD71), transferrin and ferritin have been identified as specialised proteins which control the uptake, transport and storage of free iron in tissues, thereby maintaining iron homeostasis (Crihton et al. 1992). An imbalance in iron homeostasis within the brain has been linked with the neurodegenerative diseases, Alzheimer's, Parkinson's, Huntington's and Multiple Sclerosis (Benarroch 2009). Mouse anti rat CD71 clone OX-26 is reported as suitable for use in immunoelectron microscopy (Lipardi et al. 2002). OX-26 detects a band of ~95kDa in Western blotting under reducing conditions and ~195kDa under non-reducing conditions reflecting it's homodimeric structure.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	20140355
NCBI GeneID	64678
UniProt Accession #	Q99376
Molecular Weight	70,153 Da
NCBI Official Full Name	Transferrin receptor protein 1
NCBI Official Synonym Full Names	transferrin receptor
NCBI Official Symbol	Tfrc
NCBI Official Synonym Symbols	Trfr
NCBI Protein Information	transferrin receptor protein 1; TR; tfr; tfr1
UniProt Protein Name	Transferrin receptor protein 1
UniProt Gene Name	Tfrc
UniProt Synonym Gene Names	Trfr; TR; TfR; TfR1; Trfr
UniProt Entry Name	TFR1_RAT

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd71-antibody-clone-ox-26-western-blot-immunohistochemistry-immunofluorescence-flow-cytometry-immunohistochemistry-elisa/49139>