

Rat anti-Mouse CD301 Monoclonal Antibody | anti-CD301 antibody

RAT ANTI MOUSE CD301:RPE

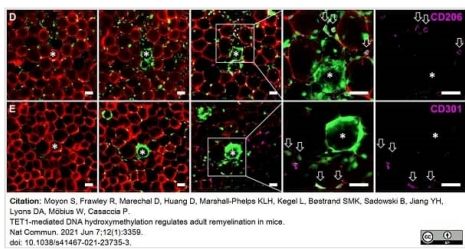
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA12294	Rat	Mouse	Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

CD301; Monoclonal Antibody; RAT ANTI MOUSE CD301:RPE; MACROPHAGE GALACTOSE SPECIFIC LECTIN; anti-CD301 antibody

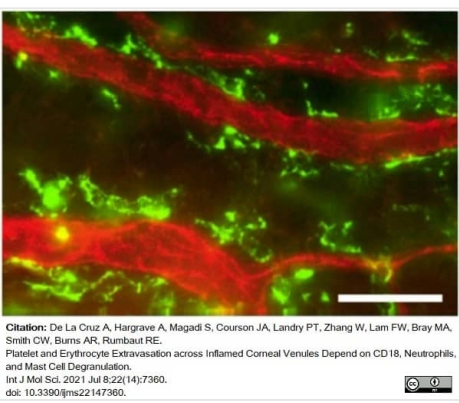
PRODUCT SPECIFICATIONS

Host	Rat
Reactivity	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	ER-MP23
Purity/Purification	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Form/Format	Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilized ALEXA FLUOR 488, ALEXA FLUOR 647, ALEXA FLUOR 700, Amethyst Blue, Amethyst Orange, Biotin, Low Endotoxin, Purified, RPE Phosphate buffered saline 0.09% sodium azide (NaN ₃) 1%
Applicable Applications for anti-CD301 antibody	FCM/FACS (Flow Cytometry)
Application Notes	FC/FACS: Min Neat; Max 1/5
Immunogen	Balb/c macrophage precursor cell hybrids.
Reconstitution	Reconstitute with 1.0 ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. We recommend that the vial is gently mixed after reconstitution.



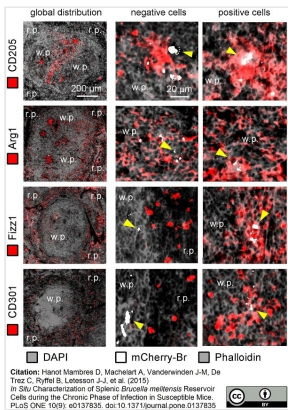
Application Data

Published customer image:Rat anti Mouse CD301 antibody, clone ER-MP23 used to identify M2 macrophages in murine adipose tissue by immunofluorescence.Image caption:Expression of M2 markers CD206 and CD301 by ATMs of induced CLS and interstitial macrophages. M2 ATMs outside of CLS are highlighted by arrows. Scale bars=?50?um.From: Lindhorst A, Raulien N, Wieghofer P, Eilers J, Rossi FMV, Bechmann I, Gericke M.Adipocyte death triggers a pro-inflammatory response and induces metabolic activation of resident macrophages.



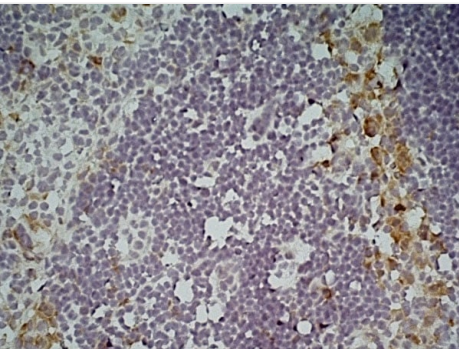
Application Data

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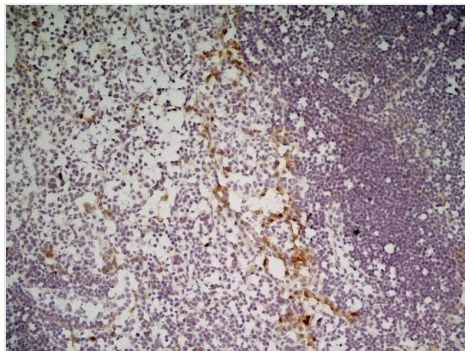
Application Data

Published customer image:Rat anti Mouse CD301 antibody, clone ER-MP23 used for the detection of CD301 positive cells in murine atherosclerotic lesions by immunofluorescence.Image caption:Characterization of the M1 and M2 macrophage subsets in the vulnerable atherosclerotic lesion. (a) Double confocal immunofluorescence of atherosclerotic lesions showing CD68 (macrophage) and CD86 (M1 marker) on top or CD86 and CD301 (M2 marker) in the bottom. Arrows point double positive cells for CD68 and CD86 or CD301. (b) Quantification of lesional CD68-CD86 (top) or CD68-CD301 (bottom) area in the models (n=7-8; with 2-tailed t test). Cast HFD and LCCA LRA CD. LCCA: left common carotid artery; LRA: left renal artery; CD: chow diet; HFD: high fat diet.



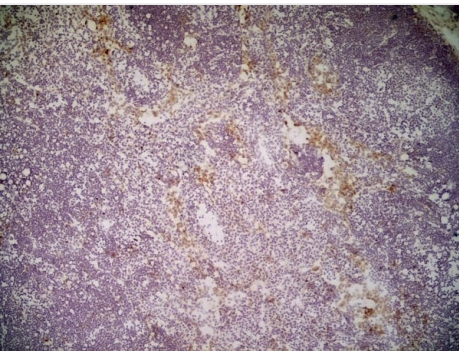
Application Data

Immunoperoxidase staining of a mouse lymph node with Rat anti Mouse CD301 antibody, clone ER-MP23 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody . High power.



Application Data

Immunoperoxidase staining of a mouse lymph node with Rat anti Mouse CD301 antibody, clone ER-MP23 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody . Medium power.



Application Data

Immunoperoxidase staining of a mouse lymph node with Rat anti Mouse CD301 antibody, clone ER-MP23 followed by horseradish peroxidase conjugated Goat anti Rat IgG antibody . Low power.

ADDITIONAL INFORMATION

Related Product Information for anti-CD301 antibody	Rat anti Mouse CD301 antibody, clone ER-MP23 recognizes murine CD301, a ~38 kDa cell surface protein, otherwise known as macrophage galactose N-acetylgalactosamine lectin (MGL) or dendritic cell asialoglycoprotein (DC-ASGPR).In mice, CD301 is predominantly expressed on mature macrophages found associated with a wide range of connective tissues including macrophages in the dermis and the pancreas. Clone ER-MP23 also detects a population of dendritic cells in lymphoid tissue, which are probably recent immigrants from peripheral connective tissue sites. Expression of CD301 is induced by alternative (i.e. IL-4/IL-13 mediated) activation of macrophages and dendritic cells, but not all CD301 positive cells are necessarily IL-4/IL-13 stimulated.Rat anti Mouse CD301 antibody, clone ER-MP23 is reported to block the function of mouse CD301 (Dupasquier et al. 2006). Rat anti Mouse CD301 antibody, clone ER-MP23 binds both MGL1 and MGL2 homologues.
Product Categories/Family for anti-CD301 antibody	Primary

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://www.aaabiotech.com/monoclonal/cd301-antibody-clone-er-mp23-flow-cytometry-elisa/12294>