

## Mouse CD172a Monoclonal Antibody | anti-CD172a antibody

MOUSE ANTI RAT CD172a:FITC

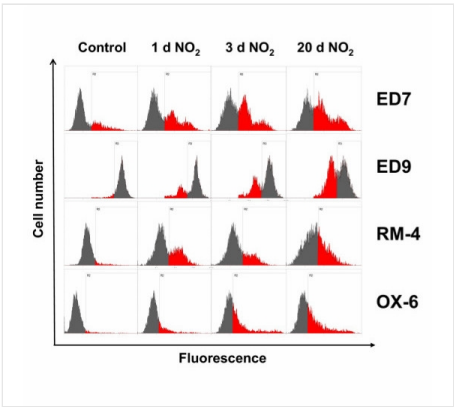
|                              |                      |                                                         |
|------------------------------|----------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA11888</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|------------------------------|----------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

CD172a; Monoclonal Antibody; MOUSE ANTI RAT CD172a:FITC; anti-CD172a antibody

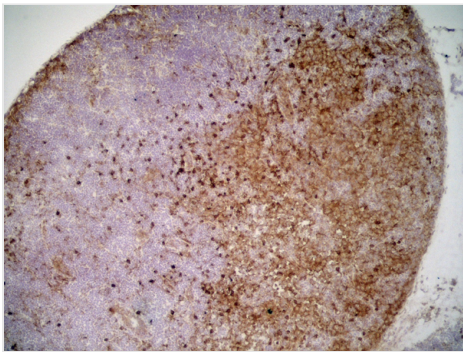
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype                                          | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clone Number                                     | ED9                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                      | FITC<br>Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid                                                                                                                                                                                                                                                                                                                                            |
| Concentration                                    | IgG concentration 0.1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length                                  | 509                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for anti-CD172a antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Application Notes                                | Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells or 100ul whole blood.<br><b>Flow Cytometry:</b> Minimum Dilution: Neat; Maximum Dilution: 1/10                                                                                                                                                                                                                                                      |
| Perservative Stabilisers                         | 0.09% Sodium Azide<br>1% Bovine Serum Albumin<br>Preparation                                                                                                                                                                                                                                                                                                                                                                      |
| Buffer Solution                                  | Phosphate buffered saline                                                                                                                                                                                                                                                                                                                                                                                                         |
| Target Species                                   | Rat                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Preparation and Storage                          | Store at 4 degree C or at -20 degree C if preferred. This product should be stored undiluted. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 18 months from date of despatch. |



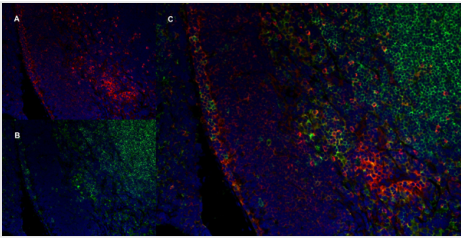
Application Data

Published clone specific image: Flow cytometric analysis of AM from NO<sub>2</sub>-exposed and control rats. Rats were exposed to NO<sub>2</sub> for the indicated times and BAL cells were stained with antibodies to ED7, ED9, RM-4, and OX-6. To overcome autofluorescence signals, primary antibodies were detected using a biotin-PE/streptavidin-anti-streptavidin enhancing system and labeling of AM was analyzed by flow cytometry following gating by help of forward and sideward scatter properties. Shown are representative results of at least six animals per group. From: Garr H, Siese A, Stumpf S, Wensing A, Renz H, Gerns D. Phenotypical and functional characterization of alveolar macrophage subpopulations in the lungs of NO<sub>2</sub>-exposed rats. Respir Res. 2006 Jan 6;7:4.



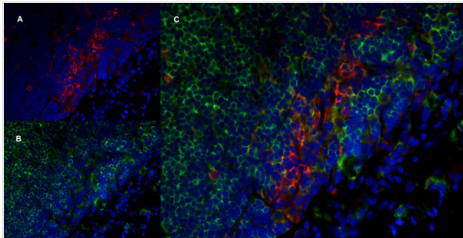
Application Data

Immunoperoxidase staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody, clone ED9 followed by horseradish peroxidase conjugated Goat anti Mouse IgG1 as a detection reagent. Low power



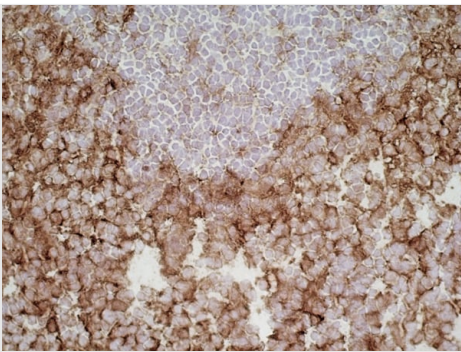
Application Data

Immunofluorescence staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody, clone ED9 , red in A and Mouse anti Rat CD4 , green in B. C is the merged image with nuclei counterstained blue using DAPI. Low power



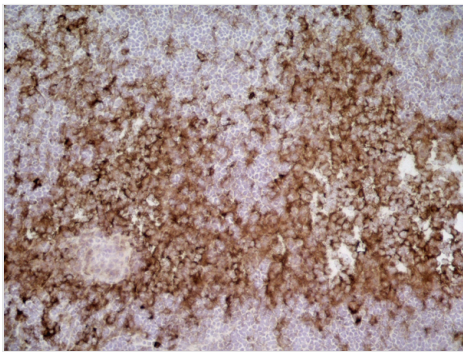
Application Data

Immunofluorescence staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody, clone ED9 , red in A and Mouse anti Rat CD4 , green in B. C is the merged image with nuclei counterstained blue using DAPI. High power



Application Data

Immunoperoxidase staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody, clone ED9 followed by horseradish peroxidase conjugated Goat anti Mouse IgG1 as a detection reagent. High power



Application Data

Immunoperoxidase staining of rat lymph node cryosection with Mouse anti Rat CD172a antibody, clone ED9 followed by horseradish peroxidase conjugated Goat anti Mouse IgG1 as a detection reagent. Medium power

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD172a antibody | Mouse anti Rat CD172a antibody, clone ED9 recognizes rat Tyrosine-protein phosphatase non-receptor type substrate 1, also known as CD172a, Signal-regulatory protein alpha-1, SIRP&alpha, -1, SHP substrate 1, Macrophage membrane protein MFP150 or Macrophage fusion receptor. CD172a is a 509 amino acid %126;56 kDa single pass typew 1 transmembrane glycoprotein expressed selectively by myeloid cells and by neurons(UniProt: P97710). Mouse anti Rat CD172a antibody, clone ED9 has been reported to bind to an alternative epitpe to another anti CD172 antibody, clone OCX-41 (Adams et al. 1998) and has been reported to block the interaction of CD172a - CD47 (de Vries et al. 2002). |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 31543529                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| NCBI GeneID                      | 25528                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| NCBI Accession #                 | NP_037148.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| NCBI GenBank Nucleotide #        | NM_013016.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| UniProt Accession #              | P97710; O08951; O70426; Q9QWI5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Molecular Weight                 | 55,691 Da                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| NCBI Official Full Name          | tyrosine-protein phosphatase non-receptor type substrate 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NCBI Official Synonym Full Names | signal-regulatory protein alpha                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| NCBI Official Symbol             | Sirpa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| NCBI Official Synonym Symbols    | Bit; Ptpns1; SHPS-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| NCBI Protein Information         | tyrosine-protein phosphatase non-receptor type substrate 1; Brain immunoglobulin like protein with tyrosine - based activation motifs; CD172 antigen-like family member A; Protein tyrosine phosphatase non-receptor type substrate 1 (SHP substrate 1); Protein tyrosine phosphatase, non-receptor type substrate 1 (SHP substrate 1); brain Ig-like molecule with tyrosine-based activation motifs; inhibitory receptor SHPS-1; macrophage fusion receptor; macrophage membrane protein MFP150; signal-regulatory protein alpha-1; sirp-alpha-1 |
| UniProt Protein Name             | Tyrosine-protein phosphatase non-receptor type substrate 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| UniProt Gene Name                | Sirpa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| UniProt Synonym Gene Names       | Bit; Mfr; Ptpns1; Shps1; Sirp; SHP substrate 1; SHPS-1; Bit; Sirp-alpha-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UniProt Entry Name               | SHPS1_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/cd172a-antibody-clone-ed9-flow-cytometry-elisa/11888>