

## Mouse OX-62 Monoclonal Antibody | anti-OX-62 antibody

MOUSE ANTI RAT OX-62

|                              |                      |                                                                                                    |
|------------------------------|----------------------|----------------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA49229</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Immunoprecipitation, Flow Cytometry, Functional Assay, Immunohistochemistry</b> |
|------------------------------|----------------------|----------------------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

OX-62; Monoclonal Antibody; MOUSE ANTI RAT OX-62; anti-OX-62 antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                          |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                         | IgG1                                                                                                                                                                                                                                                                                                                                                           |
| Clone Number                                    | OX-62                                                                                                                                                                                                                                                                                                                                                          |
| Form/Format                                     | Purified<br>Purified IgG - liquid                                                                                                                                                                                                                                                                                                                              |
| Concentration                                   | IgG concentration 1.0 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                    |
| Sequence Length                                 | 1167                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-OX-62 antibody | IP (Immunoprecipitation), FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                |
| Perservative Stabilisers                        | 0.09% Sodium Azide<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. 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. |

### IMAGES



#### Application Data

Published customer image: Analysis of innate immune cells into a corneal graft. Ox-62+ DC and CD163+ macrophages were stained at the time points of corneal allograft rejection and calculated within the graft. Additionally CD161+ cells were counted within rejected corneal allografts to finally prove the efficacy of the depletion protocol in the peripheral tissue. Representative histological staining is shown for Ox-62 (A), CD163 (C), and CD161 (E) in NK deficient and control animals. B: No statistical difference was observed for infiltrating Ox-62+ DC. D: CD163+ macrophages infiltrated to a statistically significantly stronger extent in 3.2.3-treated animals when compared to control treated animals (\*p



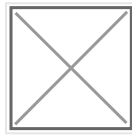
#### Application Data

Rat Splenocytes stained with Mouse anti Rat OX-62:RPE



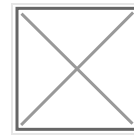
#### Application Data

Published customer image: The expression of OX62+DCs and OX62+CD4+SIRP+DCs of each groups at various development stages (Mean +/- SD). (a) The expression level of OX62+DCs of each group at different stages. (b) The expression level of OX62+CD4+SIRP+DCs of each group at different stages. (c) Single-cell suspensions of the total PP-DCs in rats were identified by OX62. The difference of OX62+DC among groups at different development stages was not significant. (F = 3.0, 0.587, 3.267, and 1.471, resp.; P > .05). Significant growth occurred in LR group for the number of OX62+CD4+SIRP+DCs at age week 3. Levels of OX62+CD4+SIRP+DC subsets at every age were highly significant in LR group and BR group compared with AR group. Furthermore, the positive cell numbers were higher in LR group than in BR group. The positive cell numbers kept stable in LR group at various ages while the positive cells number increased with age in the other two groups. Significant numbers of OX62+CD4+SIRP+DCs were found in LR and BR group at various ages (Figures 1(b) and 1(c)) compared with AR group (A: BR at W3, B: AR at W3, C: LR at W3, D: BR at W5, E: AR at W5, F: LR at W5, G: BR at W7, H: AR at W7, I: LR at W7, J: BR at W11, K: AR at W11, L: LR at W11). \*P



#### Application Data

Published customer image: IL-4 DC and IL-10 DC exhibit no obvious differences in their phenotype. IL-4 DC and IL-10 DC and mature splenic DC (sDC) coexpressed OX62 and CD68, whereas macrophages generated in the presence of M-CSF (5 ug/ml) were only positive for CD68. Broken lines indicate background staining obtained using an irrelevant isotype control. The first number represents the percentage of cells staining positive for the indicated marker and the second number represents the mean fluorescence intensity. The results shown are representative for 4 independent flow cytometric analyses. From: BMC Res Notes. 2009 Jan 23;2:12.



#### Application Data

Published customer image: Morphology and immunostaining of IL-4 DC and IL-10 DC. Rat BMDC were isolated from cell clusters on day 6 of culture (A). Cells prepared on cytospin slides stained positive for monoclonal antibodies OX62 (rat DC marker) (B), OX6 (MHC class II) (C), and CD68 (D). Shown are representative IL-4 DC results, which are similar to those for IL-10 DC. Magnification: x200 (A, C, D) and x400 (B). From: Tiurbe G, Matuschek A, Kommerer U, Schneider M, Thiede A, Ulrichs K, Otto C. Inhibitory effects of rat bone marrow-derived dendritic cells on na<sup>+</sup>ve and alloantigen-specific CD4<sup>+</sup> T cells: a comparison between dendritic cells generated with GM-CSF plus IL-4 and dendritic cells generated with GM-CSF plus IL-10. BMC Res Notes. 2009 Jan 23;2:12.

## ADDITIONAL INFORMATION

#### Related Product Information for anti-OX-62 antibody

Mouse anti Rat OX-62 antibody, clone OX-62 recognizes the OX-62 antigen, shown to be rat alpha E2 integrin which is expressed by dendritic cells of dendritic epidermal T cells, intraepithelial lymphocytes in the small intestine and by cells of dendritic morphology in lymphoid organs, at sites where gamma delta T cells are present.

## NCBI AND UNIPROT INFORMATION

|                         |                   |
|-------------------------|-------------------|
| NCBI GI #               | 81886860          |
| Molecular Weight        | 128,594 Da        |
| NCBI Official Full Name | Integrin alpha E2 |
| UniProt Protein Name    | Integrin alpha E2 |
| UniProt Gene Name       | Itgae             |
| UniProt Entry Name      | O88341_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/ox-62-antibody-clone-ox-62-immunoprecipitation-flow-cytometry-immunohistochemistry-elisa/49229>