

## Rat Ly-6B.2 ALLOANTIGEN Monoclonal Antibody | anti-Ly-6B.2 antibody

RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN:FITC

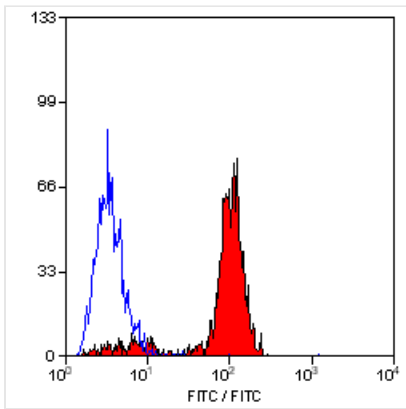
|                              |                    |                                                         |
|------------------------------|--------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA12191</b> | HOST<br><b>Rat</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|------------------------------|--------------------|---------------------------------------------------------|

### PRODUCT SYNONYMS

Ly-6B.2 ALLOANTIGEN; Monoclonal Antibody; RAT ANTI MOUSE Ly-6B.2 ALLOANTIGEN:FITC; anti-Ly-6B.2 antibody

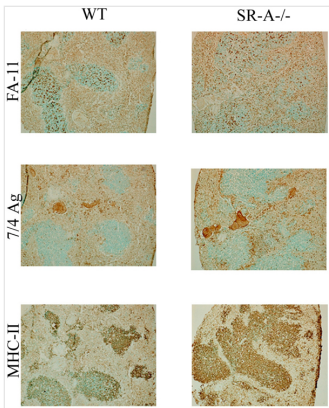
### PRODUCT SPECIFICATIONS

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                              | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                         | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Isotype                                           | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Clone Number                                      | 7/4                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Specificity                                       | Recognizes the Ly-6B.2 antigen. Ly-6B.2 is a ~25-30 kDa GPI-anchored, heavily glycosylated protein expressed on neutrophils, inflammatory monocytes and some activated macrophages (Rosas et al. 2010). High levels of expression are seen in bone marrow, spleen, lung and lymph nodes. N-glycanase treatment of thioglycollate elicited peritoneal neutrophil lysates lowers the apparent molecular weight of Ly-B6.2 to ~15 kDa (Rosas et al.2010). |
| Form/Format                                       | FITC<br>Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid                                                                                                                                                                                                                                                                                                                                                                 |
| Concentration                                     | IgG concentration 0.1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-Ly-6B.2 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Application Notes                                 | Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul.                                                                                                                                                                                                                                                                                                                                                                |
| Immunogen                                         | Cultured bone marrow cells                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Perservative Stabilisers                          | 0.09% Sodium Azide<br>1% Bovine Serum Albumin                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation                                       | Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant                                                                                                                                                                                                                                                                                                                                                          |
| Fusion Partners                                   | Spleen cells from AO rats were fused with cells from the Y3 Ag1.2.3 rat myeloma cell line.                                                                                                                                                                                                                                                                                                                                                             |
| Buffer Solution                                   | Phosphate buffered saline                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Target Species                                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Max Ex/Em                                         | Fluorophore: FITC<br>Excitation Max (nm): 490<br>Emission Max (nm): 525                                                                                                                                                                                                                                                                                                                                                                                |
| Preparation and Storage                           | Store at 4 degree C. DO NOT FREEZE. This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.<br>Shelf Life: 18 months from date of despatch.                                                                                                                                                                 |



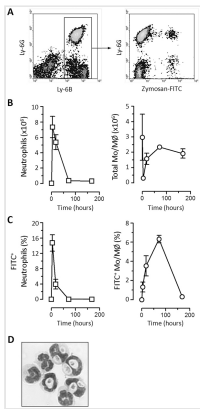
Application Data

Staining of New Zealand Black mouse peripheral blood granulocytes with Rat anti Mouse Ly-6B.2 conjugated to FITC AAA12191



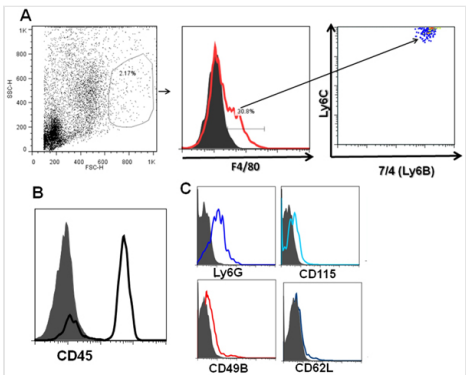
Application Data

Published originator image Intact spleen segments from infected animals were fixed in paraformaldehyde, embedded in OCT, sectioned, and stained with various antibodies for the infiltration of macrophages (FA-11), polymorphonuclear neutrophils, and activated monocytes (7/4Ag) and activated macrophages (MHC-II), as described in the text. All data are representative of at least three individual experiments. From: Pl&uuml;ddemann A, Hoe JC, Makepeace K, Moxon ER, Gordon S (2009) The Macrophage Scavenger Receptor A Is Host-Protective in Experimental Meningococcal Septicaemia. PLoS Pathog 5(2): e1000297.



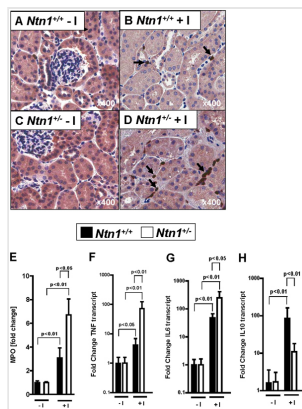
Application Data

Staining of mouse peripheral blood granulocytes with Rat anti Mouse Ly&#45;6B.2 Data



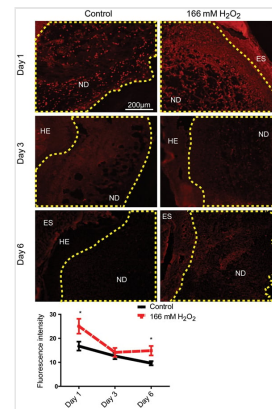
Application Data

Published customer image: F4/80 and CD11b+ cells infiltrating the iris after the intracameral injection of antigen also express Ly6C, 7/4 (Ly 6B) and CD45. Preparations of na<sup>-</sup>ve iris cells and cells recovered after an intracameral injection of antigen were stained with anti- F4/80 and (A) Ly6C and 7/4 (B) show a characteristic CD45 peak C) Ly6Glo or negative, CD115, CD49b+, CD62Llo. The figures are representative of 2 experiments. All the isotype controls in the histograms are shown as shaded. From: Pais R, Bhowmick S, Chattopadhyay S, Lemire Y, Sharafieh R, et al. (2012) An Intracameral Injection of Antigen Induces In Situ Chemokines and Cytokines Required for the Generation of Circulating Immunoregulatory Monocytes. PLoS ONE 7(8): e43182.



#### Application Data

Published customer image: Renal inflammatory changes in *Ntn1*<sup>+/-</sup> mice following ischemia. *Ntn1*<sup>+/-</sup> mice and their respective age-, weight-, and gender-matched littermate controls (*Ntn1*<sup>+/+</sup>) were subjected to 30 minutes of left renal artery ischemia. (A -D) Neutrophil staining. Arrows indicate neutrophils (magnification 400x). (E) Quantification of neutrophil tissue accumulation by measurement of myeloperoxidase (MPO). (F) TNF-α and (G) interleukin-6 (IL-6) and (H) interleukin-10 (IL-10) were assessed by real-time RT-PCR from renal tissues. Data were calculated relative to beta-actin and are expressed as fold change compared to sham-operated animals without ischemia (-I). Data are representative of four to six independent experiments for each experimental condition (mean +/- SD). From: Grenz A, Dalton JH, Bauerle JD, Badulak A, Ridyard D, et al. (2011) Partial Netrin-1 Deficiency Aggravates Acute Kidney Injury. PLoS ONE 6(5): e14812.



#### Application Data

Published customer image: 166 mM H<sub>2</sub>O<sub>2</sub> increased neutrophil infiltration in day 1 and 6 wounds. Fluorescence intensity of the neodermis was quantified using ImageJ. The area quantified is outlined with the dashed line. Results shown are mean +/- S.E.M, n = 6-7. A representative section from each treatment is shown. ES - Eschar; HE - Hyper-proliferating epidermis; ND - neodermis.\*p

**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/ly-6b2-alloantigen-antibody-clone-7-4-flow-cytometry-elisa/12191>