

## Rat CD13 Monoclonal Antibody | anti-CD13 antibody

RAT ANTI MOUSE CD13:RPE

|                              |                    |                                                         |
|------------------------------|--------------------|---------------------------------------------------------|
| CATALOG #<br><b>AAA12115</b> | HOST<br><b>Rat</b> | APPLICATIONS<br><b>Flow Cytometry, Functional Assay</b> |
|------------------------------|--------------------|---------------------------------------------------------|

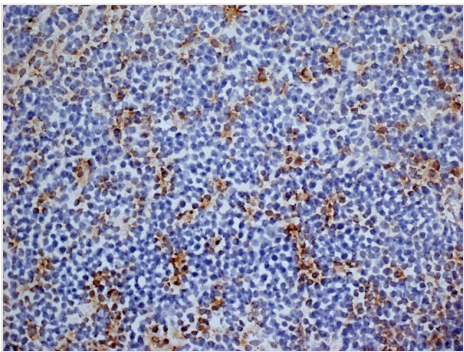
### PRODUCT SYNONYMS

CD13; Monoclonal Antibody; RAT ANTI MOUSE CD13:RPE; anti-CD13 antibody

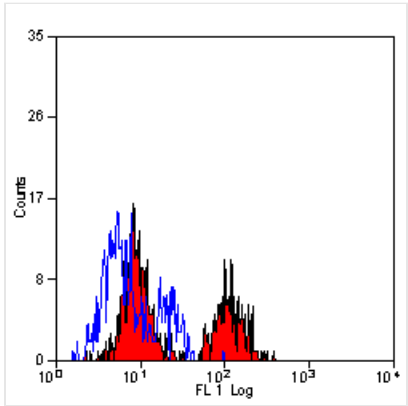
### PRODUCT SPECIFICATIONS

|                                                |                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Rat                                                                                                                                                                                                                                                                                                                                                                |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                         |
| Isotype                                        | IgG2a                                                                                                                                                                                                                                                                                                                                                              |
| Clone Number                                   | R3-63                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                    | Purified IgG conjugated to R. Phycoerythrin (RPE) - lyophilised                                                                                                                                                                                                                                                                                                    |
| Sequence Length                                | 966                                                                                                                                                                                                                                                                                                                                                                |
| Applicable Applications for anti-CD13 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                          |
| Application Notes                              | Flow Cytometry: Use 10ul of the suggested working dilution to label 106 cells in 100ul. The Fc region of monoclonal antibodies may bind non-specifically to cells expressing low affinity fc receptors. This may be reduced by using SeroBlock FcR.<br><b>Flow Cytometry:</b> Maximum Dilution: Neat                                                               |
| Reconstitution                                 | Reconstitute in 0.25 ml disilled water<br>Perservative Stabilisers                                                                                                                                                                                                                                                                                                 |
| Immunogen                                      | Mouse intestinal APN<br>Fusion Partners                                                                                                                                                                                                                                                                                                                            |
| Target Species                                 | Mouse                                                                                                                                                                                                                                                                                                                                                              |
| Preparation and Storage                        | Prior to reconstitution store at 4 degree C. Following reconstitution 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: 12 months from date of reconstitution. |

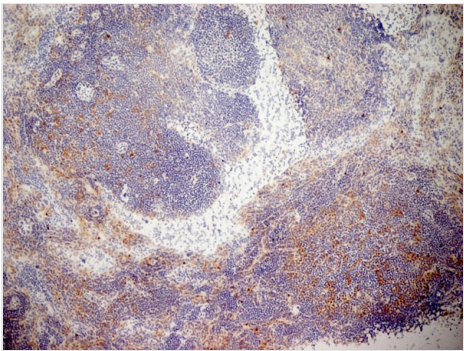
IMAGES



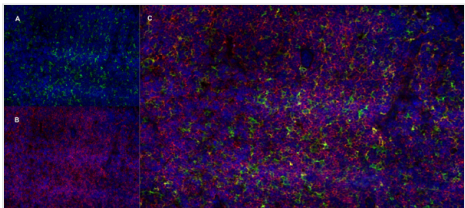
**Application Data**  
Immunoperoxidase staining of mouse lymph node cryosection with Rat anti Mouse antibody clone R3-63 followed by horseradish peroxidase Goat anti Rat IgG antibody . Medium power



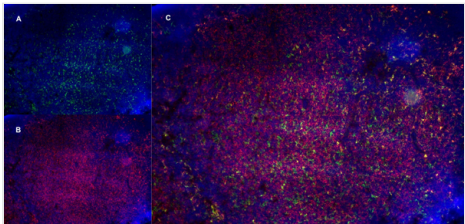
**Application Data**  
Staining of mouse peripheral blood mononuclear cells with Rat anti Mouse CD13: Alexa Fluor 488



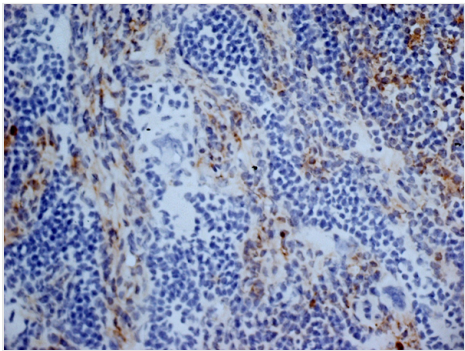
**Application Data**  
Immunoperoxidase staining of mouse lymph node cryosection with Rat anti Mouse antibody clone R3-63 followed by horseradish peroxidase Goat anti Rat IgG antibody . Low power



**Application Data**  
Immunofluorescence staining of a mouse lymph node cryosection with Rat anti Mouse CD13 antibody, clone R3-63 , green in A and Rat anti Mouse CD8, clone YTS105.18 , red in B. C is the merged image with nuclei counterstained blue using DAPI. Medium power



**Application Data**  
Immunofluorescence staining of a mouse lymph node cryosection with Rat anti Mouse CD13 antibody, clone R3-63 , green in A and Rat anti Mouse CD8, clone YTS105.18 , red in B. C is the merged image with nuclei counterstained blue using DAPI. Low power



**Application Data**  
Immunoperoxidase staining of mouse lymph node cryosection with Rat anti Mouse antibody clone R3-63 followed by horseradish peroxidase Goat anti Rat IgG antibody . High power

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD13 antibody | Rat anti Mouse CD13 antibody, clone R3-63 recognizes mouse aminopeptidase N (APN), a cell surface protein homologous with human CD13. In the mouse, CD13 is a non-covalently linked homodimer of approximately 150kDa subunits expressed by a variety of cells including monocytes, macrophages, dendritic cell and veiled cells. Rat anti Mouse CD13 antibody, clone R3-63 has been reported to block mouse APN enzyme activity (Kamoun et al. 2009). |
|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|             |           |
|-------------|-----------|
| NCBI GI #   | 225637487 |
| NCBI GeneID | 16790     |

|                                  |                                                                                                                                    |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_032512.2</a>                                                                                                        |
| NCBI GenBank Nucleotide #        | <a href="#">NM_008486.2</a>                                                                                                        |
| UniProt Accession #              | <a href="#">P97449</a> ; <a href="#">Q91YH8</a> ; <a href="#">Q99K63</a>                                                           |
| Molecular Weight                 | 109,651 Da                                                                                                                         |
| NCBI Official Full Name          | aminopeptidase N                                                                                                                   |
| NCBI Official Synonym Full Names | alanyl (membrane) aminopeptidase                                                                                                   |
| NCBI Official Symbol             | Anpep                                                                                                                              |
| NCBI Official Synonym Symbols    | Apn; AP-M; AP-N; Cd13; P150                                                                                                        |
| NCBI Protein Information         | aminopeptidase N; alanyl aminopeptidase; aminopeptidase M; aminopeptidase N/CD13; membrane protein p161; microsomal aminopeptidase |
| UniProt Protein Name             | Aminopeptidase N                                                                                                                   |
| UniProt Gene Name                | <b>Anpep</b>                                                                                                                       |
| UniProt Synonym Gene Names       | Lap-1; Lap1; AP-N; mAPN; AP-M                                                                                                      |
| UniProt Entry Name               | AMPN_MOUSE                                                                                                                         |

**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/cd13-antibody-clone-r3-63-flow-cytometry-elisa/12115>