

## Mouse anti-Pig CD27 Monoclonal Antibody | anti-CD27 antibody

MOUSE ANTI PIG CD27: FITC

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                     |
|-----------|-------|------------|----------------------------------|
| AAA50255  | Mouse | Pig        | Flow Cytometry, Functional Assay |

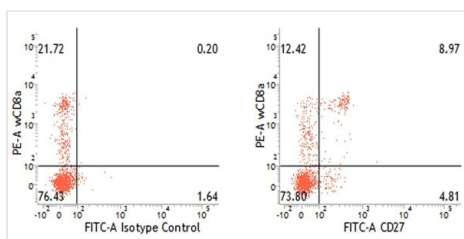
### PRODUCT SYNONYMS

CD27; Monoclonal Antibody; MOUSE ANTI PIG CD27: FITC; anti-CD27 antibody

### PRODUCT SPECIFICATIONS

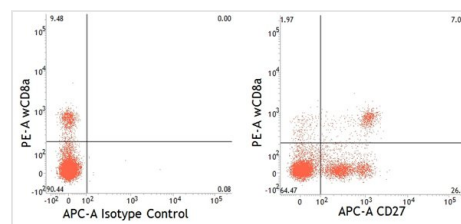
|                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                           | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Reactivity                                     | Pig                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Clonality                                      | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Isotype                                        | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Clone Number                                   | B30C7                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Specificity                                    | CD27                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                    | Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid                                                                                                                                                                                                                                                                                                                                                    |
| Concentration                                  | IgG concentration 0.1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length                                | 260                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Applicable Applications for anti-CD27 antibody | FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                         |
| Preparation                                    | Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant                                                                                                                                                                                                                                                                                                                                     |
| Preservative Stabilisers                       | 0.09% Sodium Azide (NaN <sub>3</sub> ), 1% Bovine Serum Albumin                                                                                                                                                                                                                                                                                                                                                                   |
| Buffer Solution                                | Phosphate buffered saline                                                                                                                                                                                                                                                                                                                                                                                                         |
| 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 |

### IMAGES



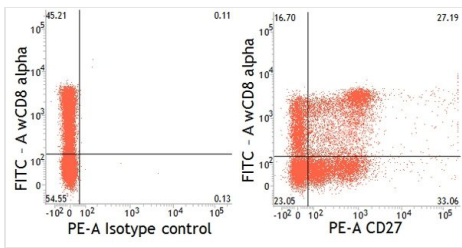
#### FCM/FACS (Flow Cytometry)

Dual staining of pig peripheral blood lymphocytes with Mouse anti Pig CD27:FITC and Mouse anti Pig wCD8a:RPE



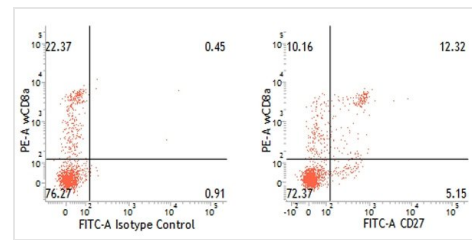
#### FCM/FACS (Flow Cytometry)

Dual staining of pig peripheral blood lymphocytes with Mouse anti Pig CD27:APC and Mouse anti Pig wCD8a:RPE



#### Application Data

Dual staining of pig peripheral blood lymphocytes with Mouse anti Pig CD27:RPE and Mouse anti Pig wCD8a:FITC



#### Application Data

Dual staining of pig peripheral blood lymphocytes with Mouse anti Pig CD27 detected with Goat anti Mouse IgG:FITC , and Mouse anti Pig wCD8a:RPE

## ADDITIONAL INFORMATION

### Related Product Information for anti-CD27 antibody

Mouse anti Pig CD27 antibody, clone B30C7 recognizes the porcine homologue of human CD27, previously known as Swine Workshop Cluster 2 (SWC2), a T-cell co-stimulatory molecule belonging to the TNF receptor family. In humans the CD27 antigen is expressed by discrete populations of T- and B-cells where it functions in a co-stimulatory role to induce proliferation of T-cells and B-cells, however studies undertaken using the B30C7 clone have been unable to detect expression of CD27 on porcine B-cells (Reutner et al. 2012). Studies in humans have demonstrated CD27 to be involved in apoptosis, research in swine has shown that porcine CD27 is expressed by all naive CD8a-ve T-helper cells and a sub-population of CD8a+ve cells (Reutner et al. 2012). Monoclonal antibodies to CD27 have previously been used to differentiate between subsets of NK cells and research utilizing clone B30C7 has shown that this monoclonal antibody may be used to differentiate between subsets of pig NK cells (Mair et al. 2013).

## NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 4507587                               |
| NCBI GeneID                      | 939                                   |
| NCBI Accession #                 | NP_001233.1                           |
| NCBI GenBank Nucleotide #        | NM_001242.4                           |
| Molecular Weight                 | 29,137 Da                             |
| NCBI Official Full Name          | CD27 antigen                          |
| NCBI Official Synonym Full Names | CD27 molecule                         |
| NCBI Official Symbol             | CD27                                  |
| NCBI Official Synonym Symbols    | T14; S152; Tp55; TNFRSF7; S152. LPFS2 |
| NCBI Protein Information         | CD27 antigen                          |
| UniProt Protein Name             | CD27 antigen                          |
| UniProt Gene Name                | <b>CD27</b>                           |
| UniProt Synonym Gene Names       | TNFRSF7                               |
| UniProt Entry Name               | CD27_HUMAN                            |

**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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/monoclonal/cd27-antibody-clone-b30c7-flow-cytometry-elisa/50255>