

## Mouse anti-Chimpanzee CD3 Monoclonal Antibody | anti-CD3 antibody

MOUSE ANTI HUMAN CD3

|                              |                      |                                 |                                                                              |
|------------------------------|----------------------|---------------------------------|------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA50103</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Chimpanzee</b> | APPLICATIONS<br><b>Immunoprecipitation, Flow Cytometry, Functional Assay</b> |
|------------------------------|----------------------|---------------------------------|------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

CD3; Monoclonal Antibody; MOUSE ANTI HUMAN CD3; anti-CD3 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                                          |
| Reactivity                                    | Chimpanzee                                                                                                                                                                                                                                                                                                                                                     |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                     |
| Isotype                                       | IgG2a                                                                                                                                                                                                                                                                                                                                                          |
| Clone Number                                  | MEM-57                                                                                                                                                                                                                                                                                                                                                         |
| Purity/Purification                           | >95% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                               |
| Form/Format                                   | Purified<br>Purified IgG - liquid                                                                                                                                                                                                                                                                                                                              |
| Concentration                                 | IgG concentration 1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                      |
| Sequence Length                               | 182                                                                                                                                                                                                                                                                                                                                                            |
| Applicable Applications for anti-CD3 antibody | IP (Immunoprecipitation), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                            |
| Perservative Stabilisers                      | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>Preparation                                                                                                                                                                                                                                                                                                          |
| Buffer Solution                               | Phosphate buffered saline                                                                                                                                                                                                                                                                                                                                      |
| Target Species                                | Human                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                       | Store at 4 degree C or at -20 degree C if preferred. Storage in frost-free freezers is not recommended. This product should be stored undiluted. 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

Staining of human peripheral blood lymphocytes with Mouse anti Human CD3:RPE



#### Application Data

Staining of human peripheral blood lymphocytes with Mouse anti Human CD3:FITC

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CD3 antibody | Mouse anti Human CD3 (MEM-57) is a monoclonal antibody recognizing an extracellular epitope of the human CD3 complex containing either delta -? or gamma -? subunit complexes (Dave et al. 1997). Mouse anti Human CD3 (MEM-57) recognizes a conformational CD3 epitope minimally requiring the presence of the CD3? subunit (Transy et al. 1989) as it will recognize murine 3D054.8 hybridoma cells tranfected with cDNA to express the human CD? subunit lacking its cytoplasmic domain. CD3 serves as a pan T cell marker, it is expressed on the surface of over 95% of circulating human peripheral T cells. CD3 is also present on ~60-80% of thymocytes and on Purkinji cells, neurons present in the cerebellar cortex. CD3 is not expressed on B cells or NK cells. The TCR complex consists of TCR heterodimers, either alpha/beta or gamma /delta expressed in a mutually exclusive manner, analagous that seen in mice on different T cell lineages. In order for the TCR heterodimer to be expressed on the cell surface it must associate with a minimal CD3 complex. The CD3 complex itself is made up of four subunits, gamma, delta, ? and ? responsible for effecitng signalling upon TCR activation, via a single or multiple, depending on the subunit, immunoreceptor tyrosine-based activation motif (ITAM) present in the CD3 subunit cytoplasmic domain (Kuhns et al. 2006 Dave et al. 1997). Mouse anti Human CD3 clone MEM-57 demonstrates a mitogenic effect on peripheral blood T cells and on the lymphoblastoid Jurkat cell line (Batista et al. 2004 Brdicková et al. 2003). Clone MEM-57 immunoprecipitates proteins of ~22kDa and more weakly ~28kDa. from peripheral blood T cell lysates. |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                             |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4557429                                                                                                                                                                                                                     |
| NCBI GeneID                      | 917                                                                                                                                                                                                                         |
| NCBI Accession #                 | NP_000064.1                                                                                                                                                                                                                 |
| NCBI GenBank Nucleotide #        | NM_000073.2                                                                                                                                                                                                                 |
| Molecular Weight                 | 20,469 Da                                                                                                                                                                                                                   |
| NCBI Official Full Name          | T-cell surface glycoprotein CD3 gamma chain                                                                                                                                                                                 |
| NCBI Official Synonym Full Names | CD3g molecule, gamma (CD3-TCR complex)                                                                                                                                                                                      |
| NCBI Official Symbol             | CD3G                                                                                                                                                                                                                        |
| NCBI Official Synonym Symbols    | T3G; IMD17; CD3-GAMMA                                                                                                                                                                                                       |
| NCBI Protein Information         | T-cell surface glycoprotein CD3 gamma chain; CD3g antigen, gamma polypeptide (TiT3 complex); CD3g molecule, epsilon (CD3-TCR complex); T-cell antigen receptor complex, gamma subunit of T3; T-cell receptor T3 gamma chain |
| UniProt Protein Name             | T-cell surface glycoprotein CD3 gamma chain                                                                                                                                                                                 |
| UniProt Gene Name                | CD3G                                                                                                                                                                                                                        |
| UniProt Synonym Gene Names       | T3G                                                                                                                                                                                                                         |
| UniProt Entry Name               | CD3G_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/cd3-antibody-clone-mem-57-immunoprecipitation-flow-cytometry-elisa/50103>