

## Mouse anti-Human Perforin Monoclonal Antibody | anti-PRF1 antibody

Mouse Anti-Human Perforin Monoclonal Antibody, PerCP Conjugated Clone B-D48

| CATALOG # | HOST  | REACTIVITY | APPLICATIONS                     |
|-----------|-------|------------|----------------------------------|
| AAA58595  | Mouse | Human      | Flow Cytometry, Functional Assay |

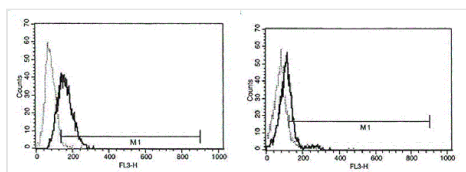
### PRODUCT SYNONYMS

Perforin; Monoclonal Antibody; Mouse Anti-Human Perforin Monoclonal Antibody; PerCP Conjugated Clone B-D48; anti-PRF1 antibody

### PRODUCT SPECIFICATIONS

|                                                |                                                             |
|------------------------------------------------|-------------------------------------------------------------|
| Host                                           | Mouse                                                       |
| Reactivity                                     | Human                                                       |
| Clonality                                      | Monoclonal                                                  |
| Isotype                                        | Mouse IgG1 Kappa Light Chain                                |
| Clone Number                                   | B-D48                                                       |
| Specificity                                    | Recognizes human Perforin, a 70 kDa protein                 |
| Purity/Purification                            | Ion exchange chromatography                                 |
| Form/Format                                    | Phosphate-buffered saline with 5% BSA and 0.1% sodium azide |
| Sequence Length                                | 555                                                         |
| Applicable Applications for anti-PRF1 antibody | FCM/FACS (Flow Cytometry)                                   |
| Antigen                                        | Perforin                                                    |
| Hybridoma                                      | Myeloma X63/AG.8653 x Balb/c spleen cells                   |
| Immunisation                                   | Natural human Perforin                                      |
| Conjugation                                    | PercP                                                       |
| Preparation and Storage                        | Stable at +2-8 degree C for 12 months. DO NOT FREEZE.       |

### IMAGES



#### Application Data

A typical staining pattern on YT cell line (left) and on PBL (right) with B-D48 PerCP monoclonal antibody

ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-PRF1 antibody | <p>Background: Perforin is a 70kDa protein containing 534 amino acid.</p> <p>Perforin is involved in the killing function by CTLs and NKs. Upon degranulation, perforin inserts itself into the target cell's plasma membrane, forming a pore. It leads to osmotic lysis of the target cells and subsequently enables granzymes to enter the target cells and activate apoptosis, the cell death program.</p> <p>Perforin has structural and functional similarities to complement component 6, 7, 8 and 9 (C6, C7, C8, C9). Like C9, this protein creates transmembrane tubules and is capable of lysing non-specifically a variety of target cells. This protein is one of the main cytolytic proteins of cytolytic granules, and it is known to be a key effector molecule for T-cell- and natural killer-cell-mediated cytotoxicity.</p> <p>Its role in the immune response against tumors and virus infection has been demonstrated.</p> |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                   |
|----------------------------------|-----------------------------------|
| NCBI GI #                        | 189847                            |
| NCBI GeneID                      | 5551                              |
| UniProt Accession #              | P14222; Q59F57; Q86WX7; B2R6X4    |
| NCBI Official Full Name          | perforin                          |
| NCBI Official Synonym Full Names | perforin 1 (pore forming protein) |
| NCBI Official Symbol             | PRF1                              |
| NCBI Official Synonym Symbols    | P1; PFP; FLH2; PFN1; HPLH2        |
| NCBI Protein Information         | perforin-1                        |
| UniProt Protein Name             | Perforin-1                        |
| UniProt Gene Name                | PRF1                              |
| UniProt Synonym Gene Names       | PFP; P1; PFP                      |
| UniProt Entry Name               | PERF_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.