

## Mouse anti-Human Fibronectin Monoclonal Antibody | anti-FN1 antibody

Fibronectin

|                               |                      |                            |                                                    |
|-------------------------------|----------------------|----------------------------|----------------------------------------------------|
| CATALOG #<br><b>AAA215450</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry, ELISA</b> |
|-------------------------------|----------------------|----------------------------|----------------------------------------------------|

### PRODUCT SYNONYMS

Fibronectin; Monoclonal Antibody; Cold insoluble globulin (CIG); FINC; FN1; FNZ; GFND; GFND2; LETS; Migration stimulating factor (MSF); Ugl-Y3; anti-FN1 antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Reactivity                                    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Isotype                                       | IgG, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clone Number                                  | FN1/3036                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Specificity                                   | Fibronectins are disulfide-linked, dimeric glycoproteins of ~440kDa. They possess at least four binding sites for collagen, glycosaminoglycans, transglutaminase, and a cell surface receptor. Epitope of this MAb is located in the 2nd-3rd type-III repeats of fibronectin. Fibronectins are extracellular matrix glycoproteins that are essential for embryonic development. Fibronectins are also involved in cell adhesion, tissue organization, and wound healing. Fibronectins are present in basement membranes, interstitial connective tissue matrix, and blood. Cellular fibronectin is widely distributed in the stroma of many malignant tumors. This MAb reacts with human cellular fibronectin, but not plasma fibronectin. |
| Purity/Purification                           | Purified Ab with BSA and Azide at 200ug/ml or Purified Ab with BSA and Azide at 200ug/ml or Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Form/Format                                   | 200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Length                               | 2355                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Applicable Applications for anti-FN1 antibody | IHC (Immunohistochemistry), ELISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen                                     | Recombinant fragment (around aa 467-595) of Human fibronectin protein (exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Cellular Localization                         | Connective Tissue Matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Hu-chromosome Location                        | 2q35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Positive Control                              | SW156 cells. Human kidney.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                       | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

IMAGES



Application Data

Analysis of Protein Array containing more than 19,000 full-length human proteins using Fibronectin Mouse Monoclonal Antibody (FN1/3036). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD&apos;s) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD&apos;s) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified Fibronectin Mouse Monoclonal Antibody (FN1/3036). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded human lung stained with Fibronectin Mouse Monoclonal Antibody (FN1/3036).



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Formalin-fixed, paraffin-embedded human lung stained with Fibronectin Mouse Monoclonal Antibody (FN1/3036).

ADDITIONAL INFORMATION

|            |                                                     |
|------------|-----------------------------------------------------|
| References | Ugarova et. al. Biochemistry, 1996; 35:10913-10921. |
|------------|-----------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                         |
|----------------------------------|---------------------------------------------------------|
| NCBI GI #                        | 16933542                                                |
| NCBI GeneID                      | 2335                                                    |
| NCBI Accession #                 | NP_002017.1                                             |
| NCBI GenBank Nucleotide #        | NP_002017.1                                             |
| UniProt Accession #              | P02751                                                  |
| Molecular Weight                 | 220kDa (monomer); 440kDa (dimer)                        |
| NCBI Official Full Name          | fibronectin isoform 3 preproprotein                     |
| NCBI Official Synonym Full Names | fibronectin 1                                           |
| NCBI Official Symbol             | FN1                                                     |
| NCBI Official Synonym Symbols    | FN; CIG; FNZ; MSF; ED-B; FINC; GFND; LETS; GFND2; SMDCF |
| NCBI Protein Information         | fibronectin                                             |
| UniProt Protein Name             | Fibronectin                                             |
| UniProt Gene Name                | FN1                                                     |
| UniProt Synonym Gene Names       | FN; FN; CIG                                             |
| UniProt Entry Name               | FINC_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.

