Human Fibronectin Antibody
Monoclonal Mouse IgG1 Clone # P1H11
Catalog Number: MAB1918

DESCRIPTION
Species Reactivity: Human
Specificity: Detects human Fibronectin in Western blots.
Source: Monoclonal Mouse IgG1 Clone # P1H11
Purification: Protein A or G purified from hybridoma culture supernatant
Immunogen: Human plasma-derived Fibronectin
Formulation: Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.
*Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS
Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

<table>
<thead>
<tr>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blot</td>
<td>1 µg/mL</td>
</tr>
<tr>
<td>Immunocytochemistry</td>
<td>3-25 µg/mL</td>
</tr>
<tr>
<td>Immunohistochemistry</td>
<td>8-25 µg/mL</td>
</tr>
<tr>
<td>Simple Western</td>
<td>10 µg/mL</td>
</tr>
</tbody>
</table>

Immunoprecipitation


DATA

Western Blot

Detection of Human Fibronectin by Western Blot. Western blot shows lysates of HepG2 human hepatocellular carcinoma cell line and C6 rat glioma cell line. PVDF membrane was probed with 1 µg/mL of Mouse Anti-Human Fibronectin Monoclonal Antibody (Catalog # MAB1918) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for Fibronectin at approximately 300 kDa (as indicated). This experiment was conducted under reducing conditions and using Western Blot Buffer Group 1.

Immunocytochemistry

Fibronectin in HepG2 and Daudi Human Cell Lines.

Fibronectin was detected in immersion fixed HepG2 human hepatocellular carcinoma cell line (positive staining; left panel) and Daudi human Burkitt’s lymphoma cell line (negative staining; right panel) using Mouse Anti-Human Fibronectin Monoclonal Antibody (Catalog # MAB1918) at 3 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

Immunohistochemistry

Fibronectin in Human Breast Cancer Tissue. Fibronectin was detected in immersion fixed paraffin-embedded sections of human breast cancer tissue using Mouse Anti-Human Fibronectin Monoclonal Antibody (Catalog # MAB1918) at 15 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Mouse HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS002) and counterstained with hematoxylin (blue). Specific staining was localized to connective tissue and fibroblasts. View our protocol for Chromogenic IHC Staining of Paraffin-embedded Tissue Sections.

Simple Western

Detection of Human Fibronectin by Simple Western™. Simple Western lane view shows lysates of HepG2 human hepatocellular carcinoma cell line, loaded at 0.2 mg/mL. A specific band was detected for Fibronectin at approximately 230 kDa (as indicated) using 10 µg/mL of Mouse Anti-Human Fibronectin Monoclonal Antibody (Catalog # MAB1918). The 12-230kDa separation system and EZ Standard Pack 5 are recommended for detecting human Fibronectin using Simple Western™.
### Preparation and Storage

<table>
<thead>
<tr>
<th>Reconstitution</th>
<th>Reconstitute at 0.5 mg/mL in sterile PBS.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shipping</td>
<td>The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. <em>Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C</em></td>
</tr>
</tbody>
</table>
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  
- 12 months from date of receipt, -20 to -70 °C as supplied.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

### Background

Fibronectin is an extracellular matrix component that exists in different alternately spliced isoforms. Fibronectins mediate cell adhesion in its insoluble state but not as a soluble molecule. Fibronectins play a role in cell adhesion, migration, differentiation, and specific gene expression.