Human IGF-I/IGF-1 Antibody
Monoclonal Mouse IgG1 Clone # 56408
Catalog Number: MAB291

DESCRIPTION

Species Reactivity: Human
Specificity: Detects human IGF-I/IGF-1 in ELISAs and Western blots. In ELISAs, this antibody does not cross-react with recombinant mouse (rm) IGF-I/IGF-1, rmIGF-II/IGF-2, or recombinant human IGF-II/IGF-2.

Source: Monoclonal Mouse IgG1 Clone # 56408

Purification: Protein A or G purified from ascites

Immunogen: E. coli-derived recombinant human IGF-I/IGF-1 Gly49-Ala118
Accession #: P01343

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>Western Blot</th>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human IGF-I/IGF-1 Sandwich Immunoassay</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA Capture</td>
<td>2-8 µg/mL</td>
<td>Human IGF-I/IGF-1 Antibody (Catalog # MAB291)</td>
</tr>
<tr>
<td>ELISA Detection</td>
<td>0.1-0.4 µg/mL</td>
<td>Human IGF-I/IGF-1 Biotinylated Antibody (Catalog # BAF291)</td>
</tr>
<tr>
<td>Standard</td>
<td></td>
<td>Recombinant Human IGF-I/IGF-1 (Catalog # 291-G1)</td>
</tr>
</tbody>
</table>

DATA

Detection of Recombinant Human IGF-I/IGF-1 by Western Blot. Western blot shows 25 ng of Recombinant Human IGF-I/IGF-1 (Catalog # 291-G1), Recombinant Mouse IGF-II/IGF-1 (Catalog # 291-MG), Recombinant Rat IGF-II/IGF-1 (Catalog # 4356-RG), and Recombinant Human IGF-II (Catalog # 292-G2). PVDF Membrane was probed with 1 µg/mL of Mouse Anti-Human IGF-I/IGF-1 Monoclonal Antibody (Catalog # MAB291) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF018). A specific band was detected for IGF-I/IGF-1 at approximately 10 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

PREPARATION AND STORAGE

Reconstitution: Reconstitute at 0.5 mg/mL in sterile PBS.

Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

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

IGF-I/IGF-1 belongs to the family of insulin-like growth factors and circulates in complex with IGF binding proteins. It is a potent mitogenic growth factor that binds the heteromeric type I and type II IGF receptors. Essentially, all of the biological activities of IGF-I/IGF-1 are mediated by IGF-I R.