Technical Data Sheet

Purified Mouse Anti-Tie2

Product Information

Material Number: 557039
Size: 0.1 mg
Concentration: 0.5 mg/ml
Clone: 33
Immunogen: Human TIE2 extracellular domain Recombinant Protein
Isotype: Mouse IgG1, κ
Reactivity: QC Testing: Human
Tested in Development: Mouse
Target MW: 130-165 kDa
Storage Buffer: Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The TIE receptor family is a member of the class of receptors called the receptor tyrosine kinases (RKT). RKTs are cell surface receptors which also contain a protein kinase domain in their intracellular portion and upon binding of their specific growth factor, initiate a series of downstream biological events. TIE receptors, designated Tie1 and Tie2 (Tck) have a tissue distribution which is limited primarily to cells of endothelial origin. Tie2 has been shown to be required for the normal development of vascular structures during embryogenesis. It has also been demonstrated to play a role in normal and pathological angiogenesis in adults. Tie2 has a predicted molecular weight of 126 kD, but may be observable at ~130-165 kDa. This antibody has been reported to recognize human and mouse Tie2 but not Tie1.

Western blot analysis for Tie2. Human endothelial cell lysates were probed with the mouse anti-Tie2 antibody at concentrations of 4 µg/mL (lane 1), 2 µg/mL (lane 2), and 1 µg/mL (lane 3). Due to glycosylation, Tie2 may be observable migrating in a range between ~130-165 kDa.

Preparation and Storage

Store undiluted at 4°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

Western blot Routinely Tested
Immunohistochemistry-frozen Reported

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharmingen/protocols/Western_Blotting.shtml

Suggested Companion Products

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<thead>
<tr>
<th>Catalog Number</th>
<th>Name</th>
<th>Size</th>
<th>Clone</th>
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<tbody>
<tr>
<td>554002</td>
<td>HRP Goat Anti-Mouse Ig</td>
<td>1.0 ml</td>
<td>(none)</td>
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<tr>
<td>611450</td>
<td>Human Endothelial Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
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Product Notices
1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References