Technical Data Sheet

Purified Mouse Anti-Human ErbB2

Product Information

Material Number: 610161
Alternate Name: Neu, Her-2
Size: 50 µg
Concentration: 250 µg/ml
Clone: 42/c-erbB-2
Immunogen: Rat ErbB2 aa. 182-373
Isotype: Mouse IgG2b
Reactivity: QC Testing: Human
Target MW: 185 kDa
Storage Buffer: Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

Description

ErbB2 (Neu or Her-2) is a member of the erbB family of growth factor receptors. These factors possess constitutive tyrosine kinase activity and are commonly overexpressed in breast and ovarian carcinomas. While other erbB family members' ligands, such as EGF and NDF, are well characterized, a natural ligand for erbB2 remains unknown. ErbB2 forms heterodimers with erbB1/EGFR, erbB3, and erbB4, and can modulate their ligand affinities. Thus, erbB2 alters the intracellular responses elicited by EGF and NDF. This control is due to the fact that erbB2, when in complex with another erbB family receptor, decelerates the rate of ligand dissociation. Therefore, erbB2 may act as a signaling subunit for other receptors rather than a true growth factor receptor. Due to high sequence homology, this antibody may cross-react with the 180 kDa EGFR.

Preparation and Storage

Store undiluted at -20°C.
The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Application Notes

Application

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<thead>
<tr>
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<th>Western blot</th>
<th>Immunoprecipitation</th>
<th>Immunofluorescence</th>
<th>Immunohistochemistry</th>
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<tr>
<td>Routinely Tested</td>
<td>Tested During Development</td>
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Recommended Assay Procedure:

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

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### Suggested Companion Products

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<th>Catalog Number</th>
<th>Name</th>
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<th>Clone</th>
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<tbody>
<tr>
<td>611447</td>
<td>A431 Cell Lysate</td>
<td>500 µg</td>
<td>(none)</td>
</tr>
<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>554001</td>
<td>FITC Goat Anti-Mouse Ig</td>
<td>0.5 mg</td>
<td>Polyclonal</td>
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### Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
3. 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


Xu W, Mimnaugh E, Rosser MF. Sensitivity of mature ErbB2 to geldanamycin is conferred by its kinase domain and is mediated by the chaperone protein Hsp90. *J Biol Chem.* 2001; 276(5):3702-3708. (Biology: Western blot)