



**Mouse (monoclonal)
Anti-Human p185^{HER-2} (c-erbB2)
Biotin Conjugate**

PRODUCT ANALYSIS SHEET

Catalog Number:	AHO0919
Lot Number:	See product label
Clone:	2G11
Quantity/Volume:	100 tests/1 mL
Isotype:	IgG1
Form of Antibody:	Biotin conjugated purified immunoglobulin in 50 mM Tris, 100 mM NaCl, pH 7.4, with 1% BSA and 0.02% sodium azide (Caution: sodium azide is a poisonous and hazardous substance. Handle with care and dispose of properly.).
Purity:	>95% prior to addition of stabilizer and preservative, as determined by SDS-PAGE.
Specificity:	<p>This monoclonal antibody specifically recognizes human p185^{HER-2}, a receptor protein tyrosine kinase with M_r=185 kDa which is also known as c-erbB-2. This protein is the cellular homolog of the neu oncogene.</p> <p>p185^{HER-2} is comprised of an extracellular ligand binding domain, a single transmembrane domain, a tyrosine kinase domain, and a C terminal region which mediates signaling. p185^{HER-2} forms heterodimers with other members of the EGF receptor family, such as c-erbB-1. In response to ligand binding, p185^{HER-2} is autophosphorylated on five tyrosine residues at its C terminus, producing docking sites for SH2 domain containing proteins such as phospholipase Cγ, PI3-K, Src, CHK, and others.</p> <p>Over-expression of p185^{HER-2} is observed in 15-40% of primary human breast tumors, and correlates with poor prognosis in node positive breast cancer. p185^{HER-2} over-expression is also observed in ovarian, gastric, salivary, and non-small cell lung carcinomas.</p>
Applications:	Use 10 μ L to label 10 ⁶ cells in flow cytometry. This antibody is also suitable for use in immunohistochemistry with cell smears or cryostat sections. Acetone or acetone-chloroform fixation of cryostat sections is recommended. The optimal concentration should be determined for each specific application.
Storage:	Store at 2-8°C. For long term storage, apportion into working aliquots and store at -20°C. Avoid repeated freeze/thaw cycles.
Expiration Date:	Expires one year from date of receipt when stored as instructed.

This product is for research use only. Not for use in diagnostic procedures.

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PI AHO0919

(Rev 10/08) DCC-08-1089

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