



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse anti HER-2/Neu (c-erbB-2)

Catalog No.
MD-16-0023

Host Animal
Mouse

Isotype
IgG₁

Description

Monoclonal Antibody to Human HER-2/Neu (c-erbB-2), amino acids 1238–1255

Preparation

Immunogen: Synthetic peptide: Cys-Lys-Gly-Thr-Pro-Thr-Ala-Glu-Asp-Pro-Glu-Tyr-Leu-Gly-Leu-Asp-Val-Pro-Val (amino acids 1238–1255) selected from the cytoplasmic domain of human c-erbB-2 protein.

Purification: Protein A chromatography

Source: Ascites

Specificity

Recognizes c-erbB-2 which is a membrane associated oncoprotein that has considerable sequence homology with EGFR. Western blot of SK-BR-3 mammary adenocarcinoma cell line detects two major protein bands at 170kDa and 180kDa. The 170kDa protein is thought to be a degradation fragment of the c-erbB-2 protein in which the immunoreactive epitope is conserved. These bands were not detected when the antibody was adsorbed with c-erbB-2 derived peptide. Does not detect any bands on immunoblots of A431 epidermoid carcinoma cell line, showing that despite sequence similarity, the antibody does not cross-react with EGFR.

Formulation

Product Form: Purified, Liquid
Buffer: PBS containing 1mg/ml BSA
Preservative: 10mM Sodium azide
Concentration: 100ug/ml

Storage

Short term (up to one month) store at 2–8°C. Long term, aliquot and store at -20°C. Avoid multiple freeze-thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA			.	
Western Blotting	.			
Flow Cytometry	.			
Immunohistochemistry (1)	.			
Conjugation			.	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(1) formalin fixed, paraffin embedded sections and frozen sections

References

Singleton, T.P., et al., (1992), "Detection of c-erbB-2 activation in paraffin-embedded tissue by immunohistochemistry", *Hum. Pathol.*, **23**: 1141–1150.

Warning

This product contains sodium azide, which has been classified as Xn (Harmful), in European Directive 67/548/EEC in the concentration range of 0.1–1.0%. When disposing of this reagent through lead or copper plumbing, flush with copious volumes of water to prevent azide build-up in drains.

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