Polyclonal Rabbit Anti-Human c-erbB-2 Oncoprotein
Code A0485

Analyte specific reagent. Analytical and performance characteristics are not established.

Summary and explanation
c-erbB-2 oncoprotein is a 185 kDa transmembrane tyrosine kinase belonging to the epidermal growth factor receptor (EGFR) family. This family comprises four homologous receptors ErbB-1 (EGFR, HER1), ErbB-2 (HER2/neu), ErbB-3 (HER3), and ErbB-4 (HER4) (1). The c-erbB-2 proto-oncogene is located on chromosome 17 at q21 (2). Activation of c-erbB-2 oncoprotein, either by homo- or heterodimerization, triggers intracellular signalling events, which are crucial for cell growth, differentiation and survival. Mechanisms promoting receptor dimerizations include ligand binding and high receptor density (overexpression). An overexpression of c-erbB-2 oncoprotein is often a result of gene amplification (1). The antibody labels an intracellular domain of c-erbB-2 oncoprotein.

Synonyms for antigen
HER2 (human epidermal growth factor receptor 2) (1), HER2/neu (5), ErbB2 (1, 5) and p185HER2 (6).

Reagent provided
Affinity-isolated rabbit antibody purified by using immobilized c-erbB-2 oncoprotein peptide and provided in liquid form. In 0.05 mol/L Tris/HCl, 0.1 mol/L NaCl, 15 mmol/L NaN3.

Protein concentration g/L:
See label on vial.

Immunogen
Synthetic human c-erbB-2 oncoprotein peptide from the intracytoplasmic part of the c-erbB-2 oncoprotein. The peptide was coupled to keyhole limpet hemocyanin (KLH).

Precautions
1. Analyte specific reagent. Analytical and performance characteristics are not established.
2. For professional users.
3. This product contains sodium azide (NaN3), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, sodium azide may react with lead and copper plumbing to form highly explosive build-ups of metal azides. Upon disposal, flush with large volumes of water to prevent metal azide build-up in plumbing.
4. As with any product derived from biological sources, proper handling procedures should be used.
5. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
6. Unused solution should be disposed of according to local, State and Federal regulations.

Storage
Store at 2-8 °C. Do not use after expiration date stamped on vial. If reagents are stored under any conditions other than those specified, the conditions must be verified by the user. There are no obvious signs to indicate instability of this product. If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the reagent is suspected, contact Dako Technical Support.

References

Explanation of symbols

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Manufactured by: Dako Denmark A/S
Produktionsvej 42
DK-2600 Glostrup
Tel. +45 44 85 95 00
Fax +45 44 85 95 95
www.dako.com

Distributed by: Dako North America, Inc.
6392 Via Real
Carpinteria, California 93013 USA
Tel. 805 566 6655
Fax 805 566 6688
Technical Support 800 424 0921
Customer Service 800 235 5763

Dako Denmark A/S | Produktionsvej 42 | DK-2600 Glostrup | Denmark | Tel. +45 44 85 95 00 | Fax +45 44 85 95 95 | CVR No. 33 21 13 17