

HER2 Probe, Digoxigenin Labeled

70-0011ASR

0.4 mL, Ready-To-Use

Intended Use

Analyte Specific Reagent.

Analytical and performance characteristics are not established.

Description

The probe is a double-stranded DNA probe, 180 kb in size, labeled with digoxigenin (DIG). It detects human HER2 gene at chromosome 17q12-21 region in formalin fixed paraffin embedded (FFPE) tissue sections and cell preparations by chromogenic *in situ* hybridization (CISH).

The probe has been demonstrated to bind specifically to the chromosome 17 region 17q12-21 by fluorescence *in situ* hybridization (FISH) on normal lymphocyte metaphase spreads. This probe can detect multiple copies in human cancer cell lines which are known to have HER2 gene amplification.

The human HER2 gene, or *c-erbB-2*, and the rat equivalent gene, *neu*, have been identified as proto-oncogenes sharing homology with the closely related *v-erbB* oncogene. The HER2 gene encodes a 185 kDa membrane receptor-like protein, and shares homology with, but is distinct from, the epidermal growth factor receptor (known as EGFr, HER1, or *c-erbB-1*).

Reagent provided

This probe is supplied as liquid in hybridization buffer in ready-to-use format.

Precautions

For professional users.

MSDS sheet may be obtained by either visiting www.genemed.com or obtained by contacting Genemed Technical Support.

Usage

Each lot is tested by CISH on FFPE human tissue sections. In these tests, the tissue sections are pretreated using Genemed ISH Tissue Pretreatment Kit (10-0173RUO), the probe and tissues are co-denatured at 92°C for 5 minutes and hybridized overnight. After 0.5X SSC stringent wash at 75°C for 5 minutes (Prepared from Genemed Cat. No. 10-0029RUO 20X SSC), the probe is detected using Genemed CISH Poly HRP Detection Kit (52-0025RUO). The CISH signal in nuclei can be observed under a bright field microscope.

Storage

Store at 2-8°C.

References

1. King CR, et al. Science 229:974-976, 1985.
2. Slamon DJ, et al. Science 244:707-712, 1989.

Symbols



Catalog No.



Batch No.



Use By



Temperature Range