Order: 0571-88177686
Fax: 0571-88177681
Support: support@biolynx.cn

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HER-2
Recombinant Rabbit Monoclonal Antibody
Product Datasheet

Catalog# BX50015
Clone# BP6020

Predicted Molecular Wt: 138kDa
Species Cross-reactivity: Human
Applications: IHC-P

Purity: ProA affinity purified IgG
Form: Liquid
Swissprot ID: P04626

Background:

HER-2 (also called HER-2/neu, c-erbB2, ERBB2 or neu) is a transmembrane receptor tyrosine kinase, which is a proto-oncogene, i.e. its activation causes malignant transformation and increases the malignant potential (cell proliferation, invasiveness etc.) of the cells. In human cancers HER-2 is activated via gene amplification, which is a genomic mutation where a small fragment at chromosome band 17q12-q21 is multiplied in a cell up to 50-100 folds.

HER-2 is over-expressed in 15-25% of primary breast cancers, can also be found in intestinal type gastric and gastroesophageal carcinomas, ovarian carcinomas, high grade endometrial carcinomas and some salivary duct tumors. Low-level copy number increases have been found also in rare cases of lung tumors.

Studies have shown that c-erbB-2 positive breast cancer usually correlates with negative staining for estrogen and progesterone receptors; thus a poorer predictive outcome is correlated with positive c-erbB-2 staining.

Subcellular location:
Membrane

Recommended method:
Heat induced epitope retrieval with Tris-EDTA buffer (pH 9.0), primary antibody incubate at RT (18°C-25°C) for 30 minutes.

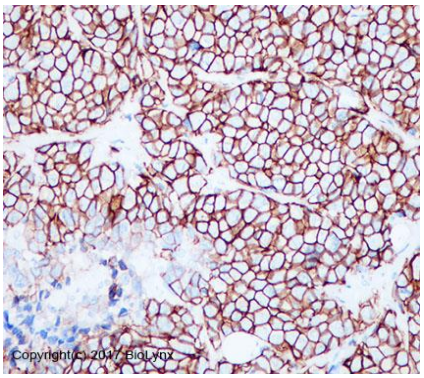
Immunogen:
Synthetic peptide according to the aa1155-1255 (C-terminal) of HER-2 was used as an immunogen.

Storage Buffer:
PBS 59%, Sodium azide 0.01%, Glycerol 40%, BSA 0.05%.

Storage conditions:
-20°C

Storage instructions:
Shipped on blue ice. Upon delivery, aliquot, and store at -20°C. Avoid freeze / thaw cycles.

Recommended Dilutions:
IHC-P: 1:100-1:200



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human breast cancer tissue labelling HER-2 with BP6020. Heat mediated antigen retrieval was performed using Tris/EDTA buffer pH 9.0

Background References:

1. Olayioye M.A., et.al. Chem. 274:17209-17218(1999).

2. Wang S.C., et.al. Cancer Cell 6:251-261(2004).

Product QC'd by:

For research use only. Not for use in diagnostic or therapeutic applications.