# IHCAb™ Her-2 mouse mAb (BGT008)

Cat #: B-IMW6882

Size: 100 µL

Storage: Store at -20°C. Avoid repeated freeze / thaw cycles.

## Background

This gene encodes a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been reported in numerous cancers, including breast and ovarian tumors. Alternative splicing results in several additional transcript variants.

## Product Information

**Applications/Dilution**: IHC-p 1:100-500, WB 1:200-1000, IF 1:100-500

**Isotype/Source**: Mouse, Monoclonal/IgG2a, Kappa

**Specificity**: The antibody can specifically recognize human Her-2 protein

**Subcellular Location**: [Isoform 1]: Cell membrane ; Single-pass type I membrane protein. Early endosome . Cytoplasm, perinuclear region. Nucleus. Translocation to the nucleus requires endocytosis, probably endosomal sorting and is mediated by importin beta-1/KPNB1. Also detected in VPS35-positive endosome-to-TGN retrograde vesicles (PubMed:31138794). .; [Isoform 2]: Cytoplasm. Nucleus.; [Isoform 3]: Cytoplasm. Nucleus

**Expression**: Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth

**Formulation**: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.41% sodium azide

**Storage**: Store at -15°C to -25°C

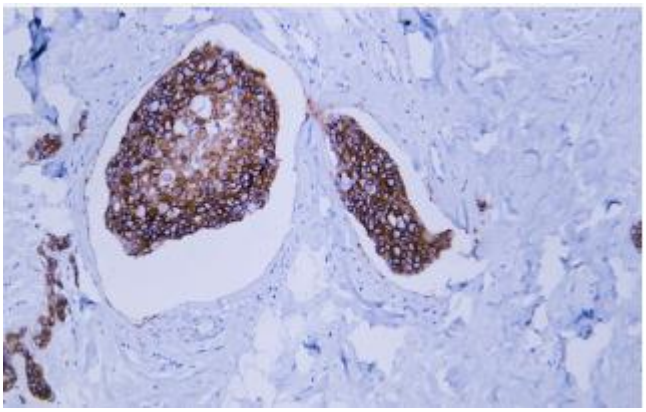

Fig.1. Human breast carcinoma tissue was stained with Anti-Her-2 Antibody

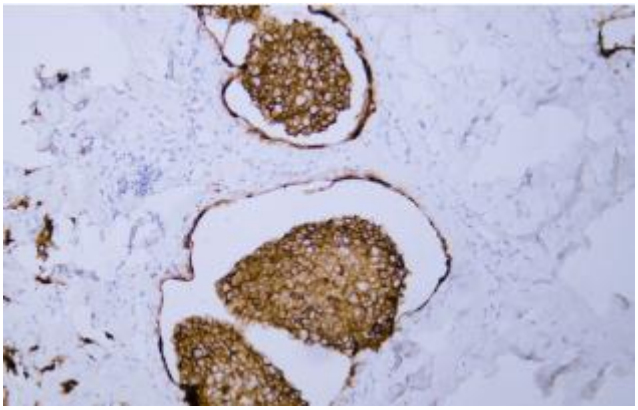

Fig.2. Human breast carcinoma tissue was stained with Anti-Her-2 Antibody

**Note**:

The product listed herein is for research use only and is not intended for use in human or clinical diagnosis.