

## Anti- human Her2 Mouse Monoclonal Primary Antibody

Clone: UMAB36 REF RU00004

### Intended use

Anti- human Her2 Mouse Monoclonal Primary Antibody is intended for research use only. Not for use in diagnostic procedures. Not for human or animal consumption.

### Background

Her2/neu/ErbB2 is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. It 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 signaling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. 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, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008].

Alternative names: C-erbB-2; HER-2; HER-2/neu; MLN 19; NEU; NGL; TKR1

### Reagent provided

Anti- human Her2 Mouse Monoclonal Primary Antibody (Clone: UMAB36) is provided in liquid form in 20mM Sodium phosphate, 150mM Sodium chloride, 0.2% BSA, 0.09% Sodium azide, pH 7.4. The isotype of the antibody is IgG1. The protein concentration is approximately 0.6 +/- 0.05 mg/mL.

For Immunohistochemistry the primary antibody may be used at a working dilution of 1:100 – 1:200 for formalin-fixed, paraffin-embedded human tissue and this can be dependent upon the detection system used. These are guidelines only and optimal dilutions should be determined by the individual laboratory.

### Immunogen

Human recombinant protein fragment corresponding to amino acids 676-1255 of human ERBB2 (NP\_004439) was produced in HEK293T cell.

### Specificity

The specificity of the anti- human Her2 Mouse Monoclonal Primary Antibody was established on known positive human breast cancer and normal human lung tissue. The anti-Her2 presented no staining on formalin fixed Her2 negative lung tissue and positive staining on formalin fixed Her2 positive human breast cancer tissue using immunohistochemical (IHC) test methods.

### Precautions

1. This product contains sodium azide (NaN<sub>3</sub>), a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, NaN<sub>3</sub> 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.
2. Wear appropriate Personal Protective Equipment to avoid contact with eyes and skin.
3. Unused reagents should be disposed of according to local, State, and Federal regulations.
4. Suitability for specific application may vary and it is the responsibility of the end user to determine the appropriate application for use and stability.

### Storage

Store at 2-8°C. If reagents are stored under conditions other than those specified in the package insert, they must be verified by the user.

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