Data Sheet (Cat.No.TMAB-00847)

Anti-HER2/ERBB2 Antibody (3F246)

Product Details

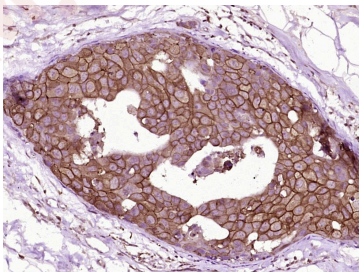
Ig Type:	IgG
Reactivity:	Human
Molecular Weight:	Theoretical: 138 kDa. Actual: 185 kDa.
Clone:	3F246
Purification:	Protein G purified

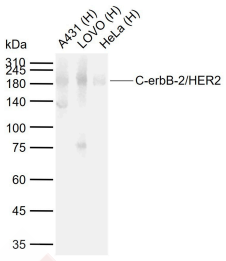
Applications

Verified Activity:

1. Paraformaldehyde-fixed, paraffin embedded (Human breast carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (C-erbB-2/HER2) Monoclonal Antibody, conjugated (TMAB-00847) at 1:800 overnight at 4°C, followed by operating according to SP Kit (Mouse) instructionsand DAB staining.

2. Sample:
Lane 1: Human A431 cell lysates
Lane 2: Human LOVO cell lysates
Lane 3: Human HeLa cell lysates
Primary: Anti-C-erbB-2/HER2 (TMAB-00847) at 1/200 dilution
Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution
Predicted band size: 138 kDa
Observed band size: 180 kDa





Application:	IF,IHC-Fr,IHC-P,WB
Recommended	IF=1:200-1000; IHC-Fr=1:200-1000; IHC-P=1:200-1000; WB=1:500-2000

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein: human HER2 protein
Antigen Species:	Human
Gene ID:	2064
Uniprot ID:	P04626
Synonyms:	ENV;CD340;MLN19;HER-2;ERBB2;ERVWE1;HERVW;NGL;ENVW;HER2;NEU;TKR1;MLN 19; herstatin;HERV7Q;EGFR2
Biology Area:	EGF,Oncoproteins,Tumor-associated antigens,EGF,Receptor Tyrosine Kinases,Tumor Associated

Research 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, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008].

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481