

For Research Use Only

# CoraLite® Plus 488-conjugated HER2/ErbB2 Monoclonal antibody

Catalog Number:CL488-60311



## Basic Information

<b>Catalog Number:</b> CL488-60311	<b>GenBank Accession Number:</b> BC156755	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 2064	<b>CloneNo.:</b> 1B12A7
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P04626	<b>Recommended Dilutions:</b> IF-P 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Full Name:</b> v-erb-b2 erythroblastic Leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)	<b>Excitation/Emission maxima wavelengths:</b> 493 nm / 522 nm
<b>Immunogen Catalog Number:</b> AG16463	<b>Calculated MW:</b> 1255 aa, 138 kDa	

## Applications

<b>Tested Applications:</b> IF-P	<b>Positive Controls:</b> IF-P : human breast cancer tissue,
<b>Species Specificity:</b> human	

## Background Information

HER2, also known as ErbB2 and Neu, is a 185-kDa transmembrane glycoprotein that 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 signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Amplification and/or overexpression of HER2 have been reported in numerous cancers, including breast and ovarian tumors. HER2 is a therapeutic target for the treatment of breast cancer and other carcinomas.

## Storage

**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

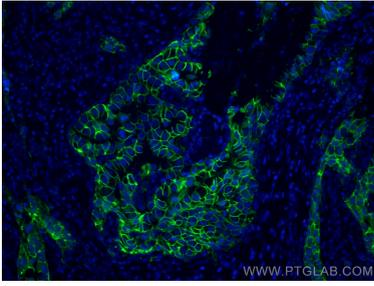
For technical support and original validation data for this product please contact:

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## Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using CoraLite® Plus 488 HER2/ErB2 antibody (CL488-60311, Clone: 1B12A7) at dilution of 1:200.