

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

Catalog Number: **CL488-60311**

## Basic Information

**Catalog Number:**

CL488-60311

**Size:**

1000 µg/ml

**Source:**

Mouse

**Isotype:**

IgG2b

**Immunogen Catalog Number:**

AG16463

**GenBank Accession Number:**

BC156755

**GeneID (NCBI):**

2064

**UNIPROT ID:**

P04626

**Full Name:**v-erb-b2 erythroblastic leukemia  
viral oncogene homolog 2,  
neuro/glioblastoma derived  
oncogene homolog (avian)**Calculated MW:**

1255 aa, 138 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1B12A7

**Recommended Dilutions:**

IF 1:50-1:500

**Excitation/Emission maxima  
wavelengths:**

493 nm / 522 nm

## Applications

**Tested Applications:**

FC, IF-P

**Species Specificity:**

human

**Positive Controls:**

IF : human breast cancer tissue,

## 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:**

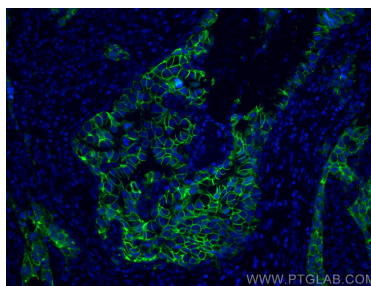
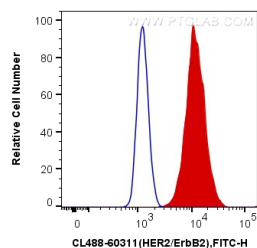
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

**Storage Buffer:**

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



1X10<sup>6</sup> SK-BR-3 cells were surface stained with 0.4 ug Coralite® Plus 488 Anti-Human HER2/ErbB2 (CL488-60311, Clone:1B12A7) (red), or 0.4 ug Mouse IgG2b Isotype Control (CL488-66360-3, Clone: K11B8C4B5) (blue). Cells were not fixed.

Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using Coralite® Plus 488 HER2/ErbB2 antibody (CL488-60311, Clone: 1B12A7) at dilution of 1:200.