

**ERBB2 / HER2 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF3859a**Specification**

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**ERBB2 / HER2 Antibody (internal region) - Product Information**

Application	IHC
Primary Accession	<a href="#">P04626</a>
Other Accession	<a href="#">NP_004439.2</a> , <a href="#">NP_001005862.1</a> , <a href="#">2064</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	137910

**ERBB2 / HER2 Antibody (internal region) - Additional Information****Gene ID** 2064**Other Names**

Receptor tyrosine-protein kinase erbB-2, 2.7.10.1, Metastatic lymph node gene 19 protein, MLN 19, Proto-oncogene Neu, Proto-oncogene c-ErbB-2, Tyrosine kinase-type cell surface receptor HER2, p185erbB2, CD340, ERBB2, HER2, MLN19, NEU, NGL

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

ERBB2 / HER2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**ERBB2 / HER2 Antibody (internal region) - Protein Information****Name** ERBB2**Synonyms** HER2, MLN19, NEU, NGL**Function**

Protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding. Essential component of a neuregulin-receptor complex, although neuregulins do not interact with it alone. GP30 is a potential ligand for this receptor. Regulates outgrowth and stabilization of peripheral microtubules (MTs). Upon ERBB2 activation,

the MEMO1-RHOA-DIAPH1 signaling pathway elicits the phosphorylation and thus the inhibition of GSK3B at cell membrane. This prevents the phosphorylation of APC and CLASP2, allowing its association with the cell membrane. In turn, membrane-bound APC allows the localization of MACF1 to the cell membrane, which is required for microtubule capture and stabilization.

#### **Cellular Location**

Cell membrane; Single-pass type I membrane protein. Cell projection, ruffle membrane; Single-pass type I membrane protein. Note=Internalized from the cell membrane in response to EGF stimulation. [Isoform 2]: Cytoplasm. Nucleus.

#### **Tissue Location**

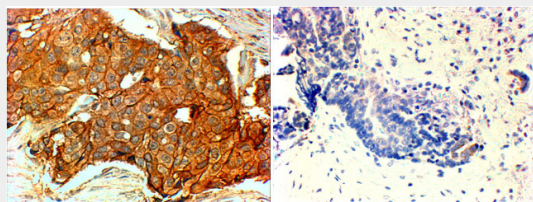
Expressed in a variety of tumor tissues including primary breast tumors and tumors from small bowel, esophagus, kidney and mouth.

### **ERBB2 / HER2 Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **ERBB2 / HER2 Antibody (internal region) - Images**



AF3859a (4 µg/ml) staining of paraffin embedded Human breast cancer (Her+ left, triple negative right). Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.

### **ERBB2 / HER2 Antibody (internal region) - Background**

This antibody is expected to recognize both reported isoforms (NP\_004439.2; NP\_001005862.1). The immunizing peptide represents part of the extracellular domain.

### **ERBB2 / HER2 Antibody (internal region) - References**

HER2 overcomes PTEN (loss)-induced senescence to cause aggressive prostate cancer. Ahmad I, Patel R, Singh LB, Nixon C, Seywright M, Barnetson RJ, Brunton VG, Muller WJ, Edwards J, Sansom OJ, Leung HY. Proc Natl Acad Sci U S A. 2011 Sep 27;108(39):16392-7. PMID: 21930937