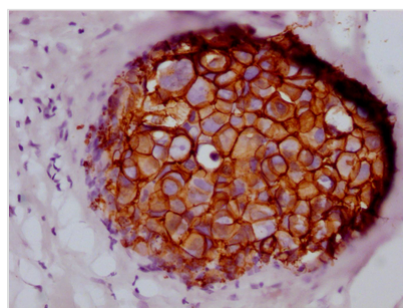




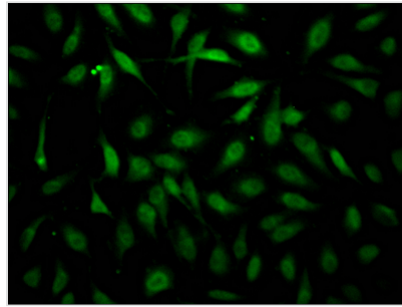
ERBB2 Antibody

| | |
|----------------------------|---|
| Product Code | CSB-RA260392A0HU |
| Storage | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |
| Uniprot No. | P04626 |
| Immunogen | A synthesized peptide derived from human ErbB2 (HER2) |
| Species Reactivity | Human |
| Tested Applications | ELISA, IHC, IF; Recommended dilution: IHC:1:50-1:200, IF:1:20-1:200 |
| Relevance | 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. |
| Form | Liquid |
| Conjugate | Non-conjugated |
| Storage Buffer | Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Purification Method | Affinity-chromatography |
| Isotype | Rabbit IgG |
| Clonality | Monoclonal |
| Product Type | Recombinant Antibody |
| Immunogen Species | Homo sapiens (Human) |
| Research Area | Cancer; Tags & Cell Markers; Immunology; Signal transduction |
| Gene Names | ERBB2 |
| Accession NO. | 5F6 |

Image



IHC image of CSB-RA260392A0HU diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



Immunofluorescence staining of HeLa Cells with CSB-RA260392A0HU at 1:50, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeated by 0.2% TritonX-100, and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

Description

ERBB2, also known as Her2, is a cell membrane-bound receptor tyrosine kinase that plays a role in the signaling pathways that lead to cell growth and proliferation. It is highly expressed in many cancer types despite being expressed at extremely low levels in normal tissues. Overexpression of ERBB2 is linked to a poor prognosis in patients with breast and ovarian cancer. In embryos and adult animals, ERBB2 is found in a variety of neuronal and non-neuronal organs, including the heart. ERBB2 is necessary for the appropriate embryonic development of neural crest-derived cranial sensory neurons, according to genetic evidence.

The recombinant ERBB2 antibody is a monoclonal antibody made in vitro using the ERBB2 antibody genes that are typically expressed from a plasmid in a stable mammalian cell line. The genes coding for the ERBB2 antibody will ultimately assemble into a fully functional antibody after translation. The synthesized antibody is the recombinant antibody against ERBB2. It underwent purification using Affinity-chromatography. This recombinant ERBB2 antibody is suitable for use in the ELISA, IHC, IF to detect the ERBB2 protein from Human.