# Rabbit Anti-Human ErbB2 / HER2 Monoclonal Antibody, FITC-Conjugated

**Cat. No.** CAB11534RH **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Rabbit Monoclonal Antibody to Human ErbB2 / HER2, FITC-Conjugated |
| **Species** | Human |
| **Source** | Rabbit |
| **Antigen Description** | ErbB2, also known as CD340 and HER2, is a type I membrane glycoprotein. It belongs to the epidermal growth factor (EGF) receptor family. ErbB2 cannot bind growth factors due to the lacking of ligand binding domain of its own and autoinhibited constitutively. However, this receptor forms a heterodimer with other ligand-bound EGF receptor family members, therefore stabilizes ligand binding and enhances kinase-mediated activation of downstream molecules. ErbB2 mediates signalling pathways which involve mitogen-activated protein kinase and phosphatidylinositol-3 kinase, this receptor plays an key role in development, cell proliferation and differentiation. ErbB2 is widely expressed in epithelial cells, and amplification and/or overexpression of the this gene has been reported associated with malignancy and a poor prognosis in numerous carcinomas, including breast, prostate and ovarian cancers. |
| **Specificity** | Human ErbB2 / HER2 / CD340 |
| **Immunogen** | Recombinant human ErbB2 protein |
| **Isotype** | Rabbit IgG |

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| **Clone** | A512 |
| **Conjugation** | FITC |
| **Applications** | FCM; WB |
| **Dilution** | Western blot: This antibody can be used at 1-2 µg/mL with the appropriate secondary reagents to detect Human ErbB2 in WB. Using a DAB detection system, the detection limit for Human ErbB2 is approximately 1 ng/lane under non-reducing conditions. |
| **Preparation** | This antibody was obtained from a rabbit immunized with purified, human cell-derived, recombinant human ErbB2 / HER2 extracellular domain and conjugated with FITC under optimum conditions, the unreacted FITC was removed |
| **Format** | Aqueous solution containing 0.5% BSA and 0.1% sodium azide |
| **Concentration** | 5 µl/Test, 0.2 mg/ml |
| **Storage** | This antibody is stable for 12 months from date of receipt when stored at 2-8 °C. Protected from prolonged exposure to light. Do not freeze ! Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal. |

## GENE INFORMATION

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| **Gene Name** | ERBB2 v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) [ Homo sapiens ] |
| **Official Symbol** | ERBB2 |
| **Synonyms** | ERBB2; v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, |

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| | neuro/glioblastoma derived oncogene homolog (avian); NGL,v erb b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); receptor tyrosine-protein kinase erbB-2; CD340; HER 2; HER2; NEU; herstatin; p185erbB2; proto-oncogene Neu; c-erb B2/neu protein; proto-oncogene c-ErbB-2; metastatic lymph node gene 19 protein; tyrosine kinase-type cell surface receptor HER2; neuroblastoma/glioblastoma derived oncogene homolog; v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 (neuro/glioblastoma derived oncogene homolog); NGL; TKR1; HER-2; MLN 19; HER-2/neu; |
| **Gene ID** | 2064 |
| **mRNA Refseq** | NM_001005862 |
| **Protein Refseq** | NP_001005862 |
| **MIM** | 164870 |
| **UniProt ID** | P04626 |
| **Chromosome Location** | 17q11.2-q12 |
| **Pathway** | Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Calcium signaling pathway, organism-specific biosystem; |
| **Function** | ATP binding; ErbB-3 class receptor binding; Hsp90 protein binding; RNA polymerase I core binding; epidermal growth factor-activated receptor activity; glycoprotein binding; contributes_to growth factor binding; identical protein binding; nucleotide |

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| | binding; protein C-terminus binding; protein binding; protein dimerization activity; protein heterodimerization activity; protein heterodimerization activity; protein heterodimerization activity; protein phosphatase binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity; ubiquitin protein ligase binding; |
| **Analysis of anti-ErbB2 on SK-BR3 cells: SK-BR3 cells were detached using 1X trypsin, washed, then stained with FITC Rabbit anti-Human ErbB2.** | |

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