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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-HER2 [FRP5] Ab03425-23.0-BT

This chimeric rabbit antibody was made using the variable domain sequences of the original Mouse IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: FRP5

Alternative Name(s) of Target: CD340; NEU; HER-2; HER-2/neu; ERBB2; MLN 19; NGL; TKR1; erb-b2 receptor tyrosine kinase 2; Receptor tyrosine-protein kinase erbB-2; Metastatic lymph node gene 19 protein; Proto-oncogene Neu; Proto-oncogene c-ErbB-2; Tyrosine kinase-type cell surface receptor HER2

UniProt Accession Number of Target Protein: P04626

Published Application(s): agonist, IP, ELISA, FC

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizing female BALB/c mice with intact SKBR3 human breast tumor cells.

Specificity: This antibody recognizes an extracellular epitope on the human HER2. This protein tyrosine kinase that is part of several cell surface receptor complexes, but that apparently needs a coreceptor for ligand binding.

Application Notes: This antibody can successfully immunoprecipitate p185 erbB-2 protein from the lysates of SKBR3 human breast tumor cells and the human erbB-2-transfected mouse HClI R111 cells. The binding of this antibody HER2 expressed on the surface of SKBR3 cells was determined using flow cytometry. Treatment of cell lines with this antibody led to a rapid increase in the phosphotyrosine content of the erbB-2 protein. Binding of this antibody stimulated the turnover of the erbB-2 protein but did not stimulate DNA synthesis in HClI R111 cells. Thus, this antibody acts as a partial ligand agonist (PMID: 1353079). The binding affinity of this antibody for human HER2 was determined using ELISA (PMID: 1369487). The scFv version of this antibody was used in the generation of scFv(FRP5)-ETA, an antibody-exotoxin recombinant protein and tested for its anti-tumor activity (PMID: 7903153). ScFv(FRP5)-ETA displayed potent antitumoral activity in vitro against a wide range of established and primary human tumor cells, including breast and ovarian carcinomas, squamous cell carcinomas and prostate carcinomas. scFv(FRP5)-ETA also effectively inhibited the in vivo growth of human tumor xenografts and murine and rat tumor cells stably transfected with human c-erbB2 constructs (PMID: 16168106).

Antibody First Published in: Harwerth et al. Monoclonal antibodies against the extracellular domain of the erbB-2 receptor function as partial ligand agonists. *J Biol Chem.* 1992 Jul 25;267(21):15160-7.

[PMID:1353079](#)

Note on publication: Describes the generation and characterization of four antibodies against extracellular domain of human HER2.

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.