Anti-erbB-2 (Her-2/neu) [4D5-8 (trastuzumab)] Standard Size Ab00103-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

NOT FOR THERAPEUTIC USE - This is a research-grade biosimilar. This is a chimeric antibody created for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa
Clone Number: 4D5-8 (trastuzumab)
Alternative Name(s) of Target: CD340; Metastatic lymph node gene 19 protein (MLN 19); Proto-oncogene Neu; Proto-oncogene c-ErbB-2; Tyrosine kinase-type cell surface receptor HER2; p185erbB2; p185HER2; EGFR
UniProt Accession Number of Target Protein: P04626
Published Application(s): ELISA, FC, IHC
Published Species Reactivity: Human
Immunogen: A431 cells (human epidermoid carcinoma) (over)expressing EGFR.
Specificity: Oncogenic protein Her-2/neu (erbB-2), a member of the family of epidermal growth factor (EGF) receptors, overexpressed in 30% of invasive breast cancers and 70% of ductal carcinomata in situ, in a small percentage of melanomas, and in other malignancies originating from various organs, including ovary, kidney, colon, and bladder.
Application Notes: This antibody binds to erbB-2/Her-2/neu has therapeutic indications particularly in the treatment of breast cancer (c.f. Herceptin). It can also be used to detect HER-2 by flow cytometry or IHC (Glazyrin 2007).
Antibody First Published in: Carter P, Presta L, Gorman CM, Ridgway JB, Henner D, Wong WL, Rowland AM, Kotts C, Carver ME, Shepard HM. Humanization of an anti-p185HER2 antibody for human cancer therapy. Proc Natl Acad Sci U S A. 1992 May 15;89(10):4285-9. PMID:1350088
Note on publication: Describes the humanisation of the antibody (also known as Herceptin), shows it recognised HER2 in a wide variety of immuno-assays.

Product Form

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Size: 200 µg Purified antibody.
Purification: Protein A affinity purified
Supplied In: PBS with 0.02% Proclin 300.
Storage Recommendation: Store at 4ºC for up to 3 months. For longer storage, aliquot and store at -20ºC.
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.

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