

## Anti-erbB-2 (Her-2/neu) [4D5-8 (trastuzumab)] Bulk size M bAb0183-BS

This antibody is a knob-into-hole bispecific based on murine IgG2a with an Fc Silent™ mutation, featuring one arm with an anti-human CD3e scFv based on the clone OKT3.

This is a bispecific, knob-into-hole heterodimerized antibody, with one arm directed against human HER2 (Fab) and one arm directed against human CD3e (scFv).

**Isotype and Format:** Mouse IgG2a hCD3e KIH bispecific, [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

**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:** See vial label

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