

Anti-HER2 [ML3-9 (C6ML3-9)] Standard Size Ab02462-10.0

This full-length, reformatted human antibody was made using the variable domain sequences of the original Human scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Lambda

Clone Number: ML3-9 (C6ML3-9)

Alternative Name(s) of Target: CD340; ERBB2; MLN 1; NEU; NGL; 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; p185erbB2; p185HER2; ML3.9; C6ML3.9

UniProt Accession Number of Target Protein: P04626

Published Application(s): RIA, SPR, FC

Published Species Reactivity: Human

Immunogen: The original antibody was created using phage display from large naïve human scFv libraries.

Specificity: This antibody is specific for HER2.

Application Notes: This antibody is an affinity matured version of the parent scFv antibody C6.5 (Schier et al,1996;pmid: 8918938). The ML3-9 scFv binds to the ErbB2 ECD with a KD of 1.1 nM. Another clone derived from ML3-9 An radioimmunoassay was performed on human serum using this antibody. The ability to bind HER2/neu was assessed in this antibody using surface plasmon resonance. An anti ErbB2/ErbB3 bispecific antibody made from ML3-9 and A5 clones called the A5-linker-ML3.9 bs-scFv exhibits selective targeting of tumour cells in vitro and in vivo that co-express the two target antigens over tumour cells that express only one target antigen or normal cells that express low levels of both antigens. This study was done using flow cytometry (Robinson et al, 2008;pmid:18841159).

Antibody First Published in: Schier et al. Isolation of picomolar affinity anti-c-erbB-2 single-chain Fv by molecular evolution of the complementarity determining regions in the center of the antibody binding site. J Mol Biol. 1996 Nov 8;263(4):551-67. [PMID:8918938](#)

Note on publication: Describes the affinity maturation of the parental antibody to obtain a high affinity binder.

Product Form

Size: 200 µg Purified antibody.

Purification:

Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.