

Anti-EGFR [2224] Standard Size Ab02461-30.11

This is an scFv fragment with a His tag.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: 2224

Alternative Name(s) of Target: ERBB1; ERBB; Erb-B2; HER1; Epidermal growth factor receptor; Proto-oncogene c-ErbB-1; Receptor tyrosine-protein kinase erbB-1

UniProt Accession Number of Target Protein: P00533

Published Application(s): 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 human EGFR.

Application Notes: This antibody is derived after affinity maturation of a parental anti-EGFR clone C10. The original scFv antibody showed a 280 fold increase in affinity compared to the parental scFv clone C10. This antibody was used for analysis of scFv-mediated internalization of fluorescent immunoliposomes and quantification by microscopy and flow cytometry. This antibody bound to human EGFR expressed on MDAMB468 cells, A431 cells and EGFR (vIII) stably transfected NR6M and was detected by flow cytometry (Zhou et al, 2007; pmid:17602702).

Antibody First Published in: Zhou et al. Impact of single-chain Fv antibody fragment affinity on nanoparticle targeting of epidermal growth factor receptor-expressing tumor cells. J Mol Biol. 2007 Aug 24;371(4):934-47. [PMID:17602702](#)

Note on publication: A library containing scFv mutants was created by error-prone PCR, displayed on the surface of yeast, and higher affinity clones selected by fluorescence activated cell sorting.

Product Form

Size: 50 µg Purified antibody.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.