Anti-Fibronectin [L19 (Radretumab)] Standard Size Ab02644-30.11

This is an scFv fragment with a His tag.

Isotype and Format: scFv fragment (His), ScFv
Clone Number: L19 (Radretumab)
Alternative Name(s) of Target: FN; Cold-insoluble globulin; CIG; EDB(+) FN; ED-B domain of fibronectin; Extra domain-B containing fibronectin
UniProt Accession Number of Target Protein: P02751
Published Application(s): RIA, ELISA, IF, IHC
Published Species Reactivity: Human
Immunogen: The original antibody was generated using phage display from a human antibody library.
Specificity: This antibody is specific for human fibronectin; it binds an epitope within the ED-B domain.
Application Notes: The original version of this antibody (human scFv) was determined to bind human fibronectin at the ED-B domain with a K_d of 54 pM using SPR. Furthermore, the antibody forms a stable complex with the fluorescently labeled ED-B and exhibits a long half-life when complexed with it (Pini et al., 1998; PMID: 9705314). This antibody was used for ELISA on biotinylated ED-B. Furthermore, it was used for a radioimmunoassay conducted on mice with subcutaneously implanted murine F9 teratocarcinoma, and for immunohistochemistry and Immunofluorescence performed on the corneas of New Zealand white rabbits (US8097254). Various formats of this antibody were used in an ELISA on the ED-B domain of FN (Borsi et al, 2002; pmid:12353237). This antibody was used for immunohistochemistry on tissues from patients with HNSCC (Birchler et al., 2003; PMID: 12838025). A radiolabeled version of this antibody was used for SPECT/CT on patients with SCC (Birchler et al., 2007; PMID: 17418248).
Antibody First Published in: Pini et al. Design and use of a phage display library. Human antibodies with subnanomolar affinity against a marker of angiogenesis eluted from a two-dimensional gel. J Biol Chem. 1998 Aug 21;273(34):21769-76. PMID:9705314
Note on publication: The original publication describes the construction and utilization of a phage display human antibody library, employing protein design principles to produce antibodies — including L19 — with subnanomolar affinity against the ED-B domain of fibronectin, a marker of angiogenesis.

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 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.