

DATASHEET

Fibronectin Rabbit Monoclonal Antibody(C6)

CAT. NO. ARA6331

KEY FEATURES

Target	Fibronectin	Source / Host	Rabbit
Reactivity	Human	Clonality	Monoclonal
Applications	in vivo, SPR, WB, ELISA, IHC	Storage	-20°C

BACKGROUND

Recombinant monoclonal antibody to Fibronectin. Manufactured using Recombinant Platform with variable regions (i.e. specificity) from the hybridoma C6.

APPLICATION NOTE

The original version of this antibody (mouse IgG1) was generated and used in ELISA, WB, IHC, SPR, and in vivo assays. ELISA analysis showed that the antibody reacts with type-III-repeats-containing FN fragments "7.EDB.8.9" and "7.EDB", and a Kd of 10 nM was measured in an SPR assay with 7.EDB.8.9 as the antigen. Western blot analysis showed that the epitope recognized by this antibody is located within the type III repeat 8 of FN. IHC analysis showed that this antibody strongly binds human-specific epitopes on repeat III8 of FN in neoplastic tissues. A murine urokinase-type plasminogen activator-conjugated mini-antibody version of the antibody was generated and utilized for in vivo tumor-targeting experiments. The reactivity of the scFv version of this antibody with wild-type and mutated fragments of the recombinant FN fragment EDB-III8 was examined via ELISA. The epitope encompasses both E1329 on ED-B and D1385 on III8, and the simultaneous presence of both residues is required for the reaction.

OVERVIEW

Isotype and Format	Rabbit IgG, Kappa
Clone Number	C6
Target Alternative Names	FN; Cold-insoluble globulin; CIG; EDB; ED-B; B-FN; Extra-domain B fibronectin
Target UniProt Accession	P02751 (Human)
Validated Applications	in vivo, SPR, WB, ELISA, IHC
Species Reactivity	Human
Immunogen	The original antibody was generated by immunizing BALB/c mice with recombinant FN fragment composed of the type III repeats 7.EDB.8.9.
Specificity Description	Specific for a cryptic epitope of human fibronectin localized on fibronectin type III repeat 8, immediately downstream of the angiogenesis-associated extra-domain B.

PRODUCT FORM

Purification	Protein A affinity purified
Supplied In	PBS with 0.02% Proclin 300
Concentration	1 mg/ml

STORAGE

Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

NOTE

For Research Use Only. Not for use in diagnostic procedures.