Monoclonal Anti-human FGF-5 Antibody

ORDERING INFORMATION

Catalog Number: MAB237

Clone: 221907

Lot Number: JUY01

Size: 500 µg

Formulation: 0.2 µm filtered solution in PBS with 5% trehalose

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human FGF-5

Immunogen: *E. coli*-derived rhFGF-5

Ig class: mouse IgG_1

Recommended Application:
Western blot

Other Application:
Direct ELISA

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, *E. coli*-derived, recombinant human Fibroblast Growth Factor 5 (rhFGF-5) long isoform. The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. FGF-5 is a secreted protein belonging to the FGF family of heparin binding proteins. It preferentially interacts with FGF R1 (IIIc) and has diverse roles in regulating cell proliferation and differentiation. FGF-5 functions as an inhibitor of hair elongation. Mice with FGF-5 deletion are characterized by abnormally long hair.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 500 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody was selected for its ability to detect human FGF-5 in direct ELISAs and western blots. In direct ELISAs, this antibody does not cross-react with any of the proteins tested.[1]

Applications

Western Blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect human FGF-5. The detection limit for rhFGF-5 is approximately 25 ng/lane under non-reducing and reducing conditions.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human FGF-5. The detection limit for rhFGF-5 is approximately 10 ng/well.

Optimal dilutions should be determined by each laboratory for each application.

1. rhFGF acidic, rhFGF basic, rhFGF-3, -4, -6, -7, -9, -10, -11, -12, -13, -16, -17, -18, -19, rmFGF-8b, -8c or -15.

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