

ORDERING INFORMATION

Catalog Number: AF3057

Lot Number: WHA01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse FGF-21

Immunogen: *E. coli*-derived rmFGF-21

Ig Type: goat IgG

Applications: Western blot
Direct ELISA

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mouse Fibroblast Growth Factor 21 (rmFGF-21; Accession # Q9JJN1). Mouse FGF-21 specific IgG was purified by mouse FGF-21 affinity chromatography. Mouse FGF-21 is a 20 kDa, secreted, nonglycosylated polypeptide that is a member of the FGF family. It is synthesized as a 210 amino acid (aa) precursor that contains a 28 aa signal sequence and a 182 aa mature region. Mature mouse FGF-21 shares 81%, 80%, 79% and 92% aa sequence identity with human, bovine, canine and rat FGF-21, respectively. FGF-21 seems to be produced by the liver and exhibits unique antidiabetogenic effects in fat.

Formulation

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

Endotoxin Level

< 0.1 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 mg/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 has been selected for its ability to recognize mouse FGF-21 in direct ELISAs and western blots. In these formats, this antibody shows approximately 15% cross-reactivity with rhFGF-21 and less than 1% cross-reactivity with rhFGF-19 and rhFGF-23.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse FGF-21. The detection limit for rmFGF-21 is approximately 2 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 mouse FGF-21. The detection limit for rmFGF-21 is approximately 0.2 ng/well.

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