

MBS047852 Cat Fibroblast Growth Factor 23 (FGF23) ELISA Kit

This kit is designed for **ACCESSION: XP_011282059 ; FGF23 fibroblast growth factor 23 [Felis catus (domestic cat)]**

Capture Antibody: Mouse monoclonal to FGF23; Immunogen: Recombinant full length protein of Cat FGF23.

Detection Antibody: Rabbit polyclonal to FGF23; Immunogen: Synthetic peptide conjugated to KLH derived from within residues 150 - 245 of Cat FGF 23.

Standard: A recombinant full length Cat protein by E.coli.

PRECISION

Intra-assay Precision (Precision within an assay)

Three samples of known concentration were tested twenty times on one plate to assess intra-assay precision.

Inter-assay Precision (Precision between assays)

Three samples of known concentration were tested in six separate assays to assess inter-assay precision

Sample	Intra-Assay Precision			Inter-Assay Precision		
	1	2	3	1	2	3
n	20	20	20	6	6	6
Mean (pg/ml)	19.9	48.3	124.0	24.2	59.6	138.9
Standard deviation	1.2	1.9	4.0	1.0	2.1	6.1
CV (%)	6.0	3.9	3.2	4.1	3.6	4.4

RECOVERY

The spike recovery was evaluated by spiking 3 levels of FGF23 into five health Cat serum samples. The un-spiked serum was used as blank in these experiments.

The recovery ranged from 81% to 100 % with an overall mean recovery of 92 %.

SAMPLE VALUES

Serum/Plasma – Thirty samples from apparently healthy Cat were evaluated for the presence of FGF23 in this assay.

Sample Type	Mean (pg/ml)	Range (pg/ml)
Serum (n=35)	220	85-320
EDTA plasma (n=35)	186	55-245
Heparin plasma (n=35)	185	52-260