

Anti-FGF23 Picoband Antibody

Catalog # ABO12554

Product Information

Application	WB
Primary Accession	Q9EPC2
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Fibroblast growth factor 23(FGF23) detection. Tested with WB in Mouse.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	64654
Other Names	Fibroblast growth factor 23, FGF-23, Fgf23
Calculated MW	27758
Application Details	Western blot, 0.1-0.5 µg/ml, Mouse
Subcellular Localization	Secreted . Secretion is dependent on O-glycosylation. .
Tissue Specificity	Mainly expressed in the brain and thymus at low levels. In brain; preferentially expressed in the ventrolateral thalamic nucleus.
Source	Eukaryota
Protein Name	Fibroblast growth factor 23
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E. coli-derived mouse FGF23 recombinant protein (Position: R48-V251). Mouse FGF23 shares 71.1% and 94.6% amino acid (aa) sequence identity with human and rat FGF23, respectively.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins.
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

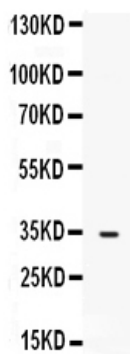
Protein Information

Name	Fgf23
Function	Regulator of phosphate homeostasis (By similarity). Inhibits renal tubular phosphate transport by reducing SLC34A1 levels (By similarity). Acts directly on the parathyroid to decrease PTH secretion (By similarity). Regulator of vitamin-D metabolism (By similarity). Negatively regulates osteoblasts differentiation and matrix mineralization (By similarity). Up-regulates EGR1 expression in the presence of KL (PubMed: 17086194).
Cellular Location	Secreted {ECO:0000250 UniProtKB:Q9GZV9}. Note=Secretion is dependent on O-glycosylation {ECO:0000250 UniProtKB:Q9GZV9}
Tissue Location	Mainly expressed in the brain and thymus at low levels. In brain; preferentially expressed in the ventrolateral thalamic nucleus.

Background

Fibroblast growth factor 23 or FGF23 is a protein that in humans is encoded by the FGF23 gene. This gene encodes a member of the fibroblast growth factor family of proteins, which possess broad mitogenic and cell survival activities and are involved in a variety of biological processes. The product of this gene regulates phosphate homeostasis and transport in the kidney. The full-length, functional protein may be deactivated via cleavage into N-terminal and C-terminal chains. Mutation of this cleavage site causes autosomal dominant hypophosphatemic rickets (ADHR). Mutations in this gene are also associated with hyperphosphatemic familial tumoral calcinosis (HFTC).

Images



Western blot analysis of FGF 23 expression in mouse testis extract (lane 1). FGF 23 at 34KD was detected using rabbit anti- FGF 23 Antigen Affinity purified polyclonal antibody (Catalog # ABO12554) at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method .

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