

Datasheet for ABIN3044523
anti-FGF23 antibody (AA 48-251)



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1 Image

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Overview

Quantity:	100 µg
Target:	FGF23
Binding Specificity:	AA 48-251
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FGF23 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-FGF23 Antibody Picoband®
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-FGF23 Antibody Picoband® (ABIN3044523). Tested in WB applications. This antibody reacts with Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	FGF23
Alternative Name:	Fgf23 (FGF23 Products)
Background:	Synonyms: Fibroblast growth factor 23,FGF-23,Fgf23, Tissue Specificity: 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).
Molecular Weight:	34 kDa
Gene ID:	64654
Pathways:	RTK Signaling , Fc-epsilon Receptor Signaling Pathway , EGFR Signaling Pathway , Neurotrophin Signaling Pathway , Negative Regulation of Hormone Secretion

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Mouse 1. "Entrez Gene: FGF23 fibroblast growth factor 23". 2. Fukumoto S (2008). "Physiological regulation and disorders of phosphate metabolism--pivotal role of fibroblast growth factor 23". Intern. Med. 47 (5): 337-43. 3. Yamashita T, Yoshioka M, Itoh N (October 2000). "Identification of a novel fibroblast growth factor, FGF-23, preferentially expressed in the ventrolateral thalamic nucleus of the brain". Biochem. Biophys. Res. Commun. 277 (2): 494-8.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

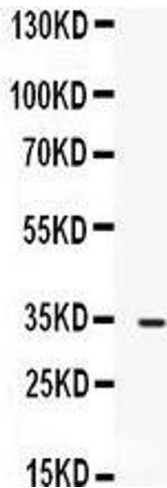
Handling

Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Publications

Product cited in:	Ji, Ling, Zhang, Chou, Yang, Wang, Yin, Wu, Yu: "MicroRNA-296 mediated corneal neovascularization in an animal model of corneal burns after alkali exposures." in: Experimental and therapeutic medicine , Vol. 15, Issue 1, pp. 139-144, (2018) (PubMed).
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Images



Western Blotting

Image 1. 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 at 0.5 µg/mL. The blot was developed using chemiluminescence (ECL) method