abcam

Product datasheet

Anti-FGF 23 antibody ab123502

1 Abreviews 1 Image

Overview

Product name	Anti-FGF 23 antibody
Description	Goat polyclonal to FGF 23
Host species	Goat
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse **Predicted to work with:** Rat
Immunogen	Synthetic peptide with sequence C- ENGYDVYLSQKHH , corresponding to internal sequence amino acids 121-133 of Mouse FGF 23 (NP_073148.1) Run BLAST with Run BLAST with
Positive control	Mouse Brain lysate

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab123502** in the following tested applications.

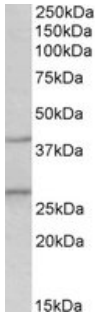
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 2 µg/ml. Detects a band of approximately 27, 38 kDa (predicted molecular weight: 28 kDa). When using mouse brain lysate:

Target

Function	Regulator of phosphate homeostasis. Inhibits renal tubular phosphate transport by reducing SLC34A1 levels. Upregulates EGR1 expression in the presence of KL (By similarity). Acts directly on the parathyroid to decrease PTH secretion (By similarity). Regulator of vitamin-D metabolism. Negatively regulates osteoblast differentiation and matrix mineralization.
Tissue specificity	Expressed in osteogenic cells particularly during phases of active bone remodeling. In adult trabecular bone, expressed in osteocytes and flattened bone-lining cells (inactive osteoblasts).
Involvement in disease	Defects in FGF23 are the cause of autosomal dominant hypophosphataemic rickets (ADHR) [MIM:193100]. ADHR is characterized by low serum phosphorus concentrations, rickets, osteomalacia, leg deformities, short stature, bone pain and dental abscesses. Defects in FGF23 are a cause of hyperphosphatemic familial tumoral calcinosis (HFTC) [MIM:211900]. HFTC is a severe autosomal recessive metabolic disorder that manifests with hyperphosphatemia and massive calcium deposits in the skin and subcutaneous tissues.
Sequence similarities	Belongs to the heparin-binding growth factors family.
Post-translational modifications	Following secretion this protein is inactivated by cleavage into a N-terminal fragment and a C-terminal fragment. The processing is effected by proprotein convertases. O-glycosylated by GALT3. Glycosylation is necessary for secretion; it blocks processing by proprotein convertases when the O-glycan is alpha 2,6-sialylated. Competition between proprotein convertase cleavage and block of cleavage by O-glycosylation determines the level of secreted active FGF23.
Cellular localization	Secreted. Secretion is dependent on O-glycosylation.

Images



Western blot - Anti-FGF 23 antibody (ab123502)

Anti-FGF 23 antibody (ab123502) at 0.5 µg/ml
+ Mouse brain lysate in RIPA buffer at 35 µg

Predicted band size: 28 kDa
Observed band size: 27 kDa
Additional bands at: 38 kDa. We are unsure as to the identity of these extra bands.

Primary incubation was 1 hour. Detected by chemiluminescence.

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