abcam

Product datasheet

Anti-FGF 23 antibody ab47117

1 图像

概述

产品名称	Anti-FGF 23抗体
描述	**兔多克隆抗体**to FGF 23
宿主	Rabbit
特异性	This antibody is specific for FGF 23.
经测试应用	**适用于:** ICC/IF, ELISA, WB
种属反应性	**与反应:** Human
免疫原	Recombinant human FGF 23. 27 kDa protein containing 227 amino acid residues of the human FGF 23 and 16 additional amino acid residues, HisTag. Source of immunogen, *E.coli*

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
存储溶液	Preservative: None Constituents: 0.1M Sodium chloride, 0.05M PBS, pH 7.2
纯度	Immunogen affinity purified
纯化说明	Immunoaffinity chromatography on a column with immobilized recombinant human FGF 23.
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab47117** in the following tested applications.

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

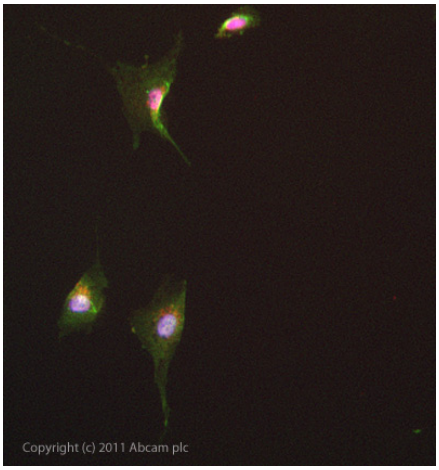
应用	Ab评论	说明
ICC/IF		Use a concentration of 1 µg/ml.
ELISA		Use at an assay dependent dilution.

应用	Ab评论	说明
WB		Use a concentration of 1 µg/ml. Predicted molecular weight: 28 kDa.

靶标

功能	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.
组织特异性	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).
疾病相关	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.
序列相似性	Belongs to the heparin-binding growth factors family.
翻译后修饰	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.
细胞定位	Secreted. Secretion is dependent on O-glycosylation.

图片



Immunocytochemistry/ Immunofluorescence - Anti-FGF 23 antibody (ab47117)

ICC/IF image of ab47117 stained SKNSH cells. The cells were 4% PFA fixed (10mins) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab47117, 1µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899 Dylight 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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