

FGF-23 (P-15): sc-27249

BACKGROUND

Fibroblast growth factor-1 (FGF-1), also designated acidic FGF, and fibroblast growth factor-2 (FGF-2), also designated basic FGF, are members of a family of growth factors that stimulate proliferation of cells of mesenchymal, epithelial and neuroectodermal origin. Additional members of the FGF family include the oncogenes FGF-3 (Int2) and FGF-4 (hst/Kaposi), FGF-5, FGF-6, FGF-7 (KGF), FGF-8 (AIGF), FGF-9 (GAF) and FGF-10 through FGF-23. Members of the FGF family share 30-55% amino acid sequence identity and similar gene structure, and are capable of transforming cultured cells when overexpressed in transfected cells. Cellular receptors for FGFs are members of a second multigene family, including four tyrosine kinases designated Flg (FGFR-1), Bek (FGFR-L), TKF and FGFR-3.

CHROMOSOMAL LOCATION

Genetic locus: FGF23 (human) mapping to 12p13.32; Fgf23 (mouse) mapping to 6 F3.

SOURCE

FGF-23 (P-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of FGF-23 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-27249 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

FGF-23 (P-15) is recommended for detection of precursor and mature FGF-23 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

FGF-23 (P-15) is also recommended for detection of precursor and mature FGF-23 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for FGF-23 siRNA (h): sc-39486, FGF-23 siRNA (m): sc-39487, FGF-23 shRNA Plasmid (h): sc-39486-SH, FGF-23 shRNA Plasmid (m): sc-39487-SH, FGF-23 shRNA (h) Lentiviral Particles: sc-39486-V and FGF-23 shRNA (m) Lentiviral Particles: sc-39487-V.

Molecular Weight of mature FGF-23: 32 kDa.

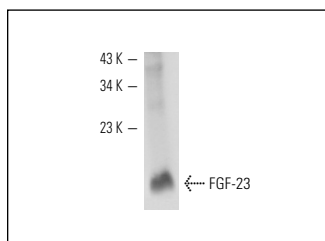
Molecular Weight of FGF-23 fragment(s): 12 kDa.

Positive Controls: human PBL whole cell lysate or mouse heart extract: sc-2254.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



FGF-23 (P-15): sc-27249. Western blot analysis of FGF-23 expression in human PBL whole cell lysate.

SELECT PRODUCT CITATIONS

1. Carrillo-López, N., et al. 2009. Indirect regulation of PTH by estrogens may require FGF23. *J. Am. Soc. Nephrol.* 20: 2009-2017.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.



Try **FGF-2 (G-2): sc-365106** or **FGF-2 (C-2): sc-74412**, our highly recommended monoclonal alternatives to FGF-23 (P-15). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **FGF-2 (G-2): sc-365106**.