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# Anti-FGF23 Antibody

Catalog # AP60285

## Product Information

| | |
|---|---|
| **Application** | WB, IF/IC |
| **Primary Accession** | Q9GZV9 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 27954 |

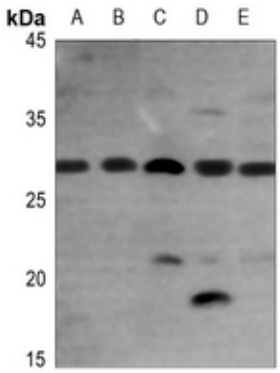
## Additional Information

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|---|---|
| **Gene ID** | 8074 |
| **Other Names** | HYPF; Fibroblast growth factor 23; FGF-23; Phosphatonin; Tumor-derived hypophosphatemia-inducing factor |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human FGF23. The exact sequence is proprietary. |
| **Dilution** | WB~~WB (1/500 - 1/1000) IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

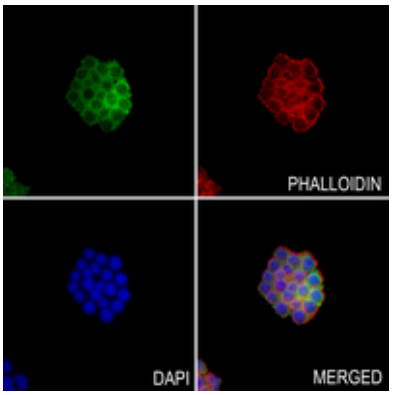
## Protein Information

| | |
|---|---|
| **Name** | FGF23 |
| **Synonyms** | HYPF |
| **Function** | Regulator of phosphate homeostasis (PubMed: 11062477). Inhibits renal tubular phosphate transport by reducing SLC34A1 levels (PubMed:11409890). Up-regulates 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 (PubMed:15040831). Negatively regulates osteoblast differentiation and matrix mineralization (PubMed:18282132). |
| **Cellular Location** | Secreted. Note=Secretion is dependent on O-glycosylation |
| **Tissue Location** | 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) |

## Images




Western blot analysis of FGF23 expression in A549 (A), U2OS (B), mouse liver (C), mouse heart (D), rat liver (E) whole cell lysates. (Predicted band size: 27 kD; Observed band size: 28 kD)




Immunofluorescent analysis of FGF23 staining in MDAMB231 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.