

Rabbit Anti-Osteoprotegerin (OPG)/TNFRSF11B Polyclonal: RC0308

Intended Use: For Research Use Only

Description: The protein encoded by this gene is a member of the TNF-receptor superfamily. This protein is an osteoblast-secreted decoy receptor that functions as a negative regulator of bone resorption. This protein specifically binds to its ligand, osteoprotegerin ligand, both of which are key extracellular regulators of osteoclast development. Studies of the mouse counterpart also suggest that this protein and its ligand play a role in lymph-node organogenesis and vascular calcification. Alternatively spliced transcript variants of this gene have been reported, but their full length nature has not been determined.

Specifications

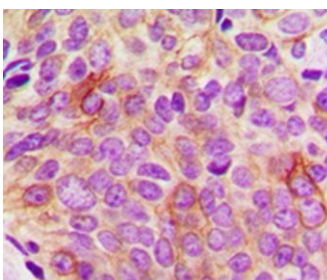
Clone: Polyclonal
 Source: Rabbit
 Isotype: IgG
 Reactivity: Human, mouse, rat
 Immunogen: KLH-conjugated synthetic peptide of human Osteoprotegerin N-term region
 Localization: Secreted
 Formulation: Antibody in PBS pH7.4, containing BSA and $\leq 0.09\%$ sodium azide (NaN₃)
 Storage: Store at 2°- 8°C
 Applications: IHC, ICC/IF, WB
 Package:

Description	Catalog No.	Size
Osteoprotegerin (OPG)/TNFRSF11B Concentrated	RC0308	1 ml

IHC Procedure*

Positive Control Tissue: Kidney, heart
 Concentrated Dilution: 10-50
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: Overnight @ 4°C
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human breast cancer stained with anti-Osteoprotegerin using DAB

References:

1. Exendin-4 promotes osteogenic differentiation of adipose-derived stem cells and facilitates bone repair. Deng B, et al. Mol Med Rep 20:4933-4942, 2019.
2. Correlation Between Baseline Osteoprotegerin Serum Levels and Prognosis of Advanced-Stage Colorectal Cancer Patients. De Toni EN, et al. Cell Physiol Biochem 45:605-613, 2018.
3. A gain of function mutation in TNFRSF11B encoding osteoprotegerin causes osteoarthritis with chondrocalcinosis. Ramos YF, et al. Ann Rheum Dis N/A:N/A, 2014.