OPG Monoclonal Antibody

Catalog No :	YM0489
Reactivity :	Human
Applications :	WB;IHC;IF;ELISA
Target :	OPG
Fields :	>>Cytokine-cytokine receptor interaction;>>Osteoclast differentiation
Gene Name :	TNFRSF11B
Protein Name :	Tumor necrosis factor receptor superfamily member 11B
Human Gene Id :	4982
Human Swiss Prot No :	O00300
Mouse Swiss Prot No :	O08712
Immunogen :	Purified recombinant fragment of human OPG expressed in E. Coli.
Specificity :	OPG Monoclonal Antibody detects endogenous levels of OPG protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	46kD
Cell Pathway :	Cytokine-cytokine receptor interaction;

P References :

1. Am J Hypertens. 2009 Nov;22(11):1167-70.
2. Am J Hum Genet. 2009 Nov;85(5):628-42.

Background :

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. [provided by RefSeq, Jul 2008],

Function :

disease:Defects in TNFRSF11B are the cause of juvenile Paget disease (JPD) [MIM:239000]; also called hyperostosis corticalis deformans juvenilis or hereditary hyperphosphatasia or chronic congenital idiopathic hyperphosphatasia. JPD is a rare autosomal recessive osteopathy that presents in infancy or early childhood. The disorder is characterized by rapidly remodeling woven bone, osteopenia, debilitating fractures, and deformities due to a markedly accelerated rate of bone remodeling throughout the skeleton. Approximately 40 cases of JPD have been reported worldwide. Unless it is treated with drugs that block osteoclast-mediated skeletal resorption, the disease can be fatal.,function:Acts as decoy receptor for RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis in vitro. Bone homeostasis seems to depen

Subcellular Location :

Secreted.

Expression :

Highly expressed in adult lung, heart, kidney, liver, spleen, thymus, prostate, ovary, small intestine, thyroid, lymph node, trachea, adrenal gland, testis, and bone marrow. Detected at very low levels in brain, placenta and skeletal muscle. Highly expressed in fetal kidney, liver and lung.

Sort :

11302

No4 :

1

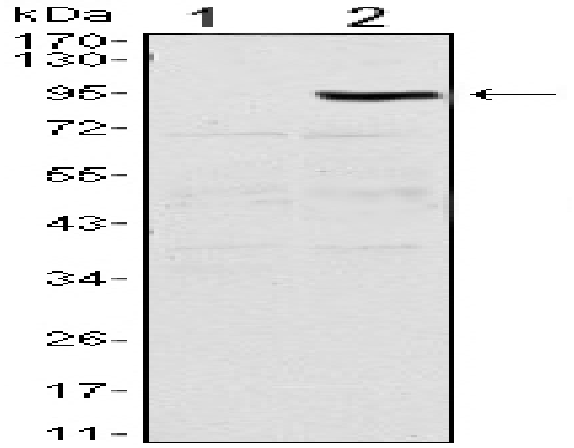
Host :

Mouse

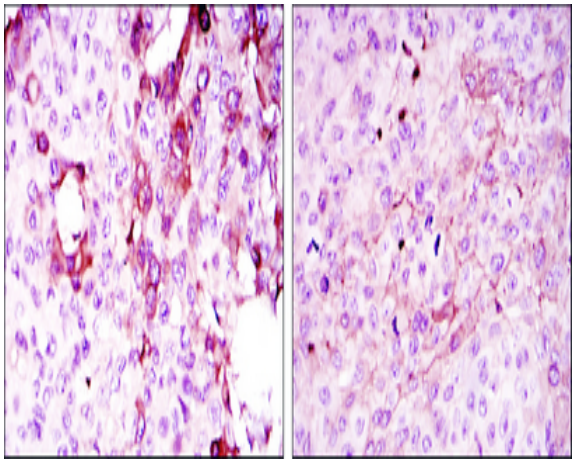
Modifications :

Unmodified

Products Images



Western Blot analysis using OPG Monoclonal Antibody against HEK293 (1) and OPG-hIgGFc transfected HEK293 (2) cell lysate.



Immunohistochemistry analysis of paraffin-embedded mammary cancer tissues (left) and lung cancer tissues (right) with DAB staining using OPG Monoclonal Antibody.