

## Anti-Osteoprotegerin Polyclonal Antibody 2

### Product Details

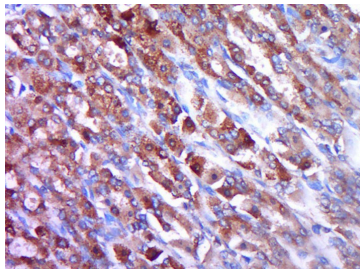
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Rabbit)
Molecular Weight:	Theoretical: 44 kDa. Actual: 55 kDa.
Purification:	Protein A purified

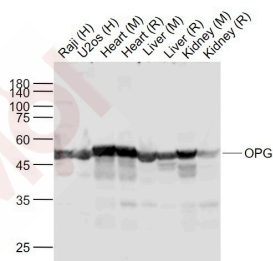
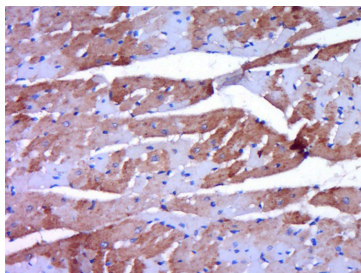
### Applications

1. Paraformaldehyde-fixed, paraffin embedded (Rat stomach); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (OPG) Polyclonal Antibody, Unconjugated (TMAB-01301) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.
2. Paraformaldehyde-fixed, paraffin embedded (Rat heart); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (OPG) Polyclonal Antibody, Unconjugated (TMAB-01301) at 1:400 overnight at 4°C, followed by operating according to SP Kit (Rabbit) instructions and DAB staining.

#### 3. Sample:

Verified Activity:	Lane 1: Raji (Human) Cell Lysate at 30 µg
	Lane 2: U2os (Human) Cell Lysate at 30 µg
	Lane 3: Heart (Mouse) Lysate at 40 µg
	Lane 4: Heart (Rat) Lysate at 40 µg
	Lane 5: Liver (Mouse) Lysate at 40 µg
	Lane 6: Liver (Rat) Lysate at 40 µg
	Lane 7: Kidney (Mouse) Lysate at 40 µg
	Lane 8: Kidney (Rat) Lysate at 40 µg
	Primary: Anti-OPG (TMAB-01301) at 1/1000 dilution
	Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
	Predicted band size: 55 kDa
	Observed band size: 55 kDa





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

## Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

## Antigen Details

Immunogen: KLH conjugated synthetic peptide: human OPG

Antigen Species: Human

Gene ID: 4982

Uniprot ID: O00300

Synonyms: tumor necrosis factor receptor superfamily member 11b;PDB5;MGC29565;OCIF;TR1;OPG

Biology Area: Inflammatory mediators,Blood,Bone,TNF Superfamily,Obesity,Bone,TNF

## Research Background

Osteoprotegerin (OPG, or osteoclastogenesis inhibitory factor) is a secretory glycoprotein belonging to TNF receptor superfamily. Acts as decoy receptor for RANKL and thereby neutralizes its function in osteoclastogenesis. Inhibits the activation of osteoclasts and promotes osteoclast apoptosis. Bone homeostasis seems to depend on the local RANKL/OPG ratio. May also play a role in preventing arterial calcification. May act as decoy receptor for TRAIL and protect against apoptosis. TRAIL binding blocks the inhibition of osteoclastogenesis. OPG acts as a soluble factor in the regulation of bone mass and may be beneficial in the treatment of osteoporosis with increased osteoclast activity. OPG consists of 401 amino acids with a molecular weight of 44 kDa as a monomer and 90 kDa as a disulphide-linked dimer.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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