

## Anti-Osteoprotegerin Polyclonal Antibody

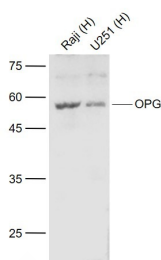
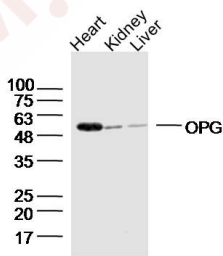
### Product Details

Ig Type: IgG  
Reactivity: Human, Mouse, Rat (predicted: Dog, Cow)  
Molecular Weight: Theoretical: 43 kDa. Actual: 53 kDa.  
Purification: Protein A purified

### Applications

1. Sample:  
Heart (Mouse) Lysate at 40 µg  
Kidney (Mouse) Lysate at 40 µg  
Liver (Mouse) Lysate at 40 µg  
Primary: Anti-OPg (TMAB-01300) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 43 kDa  
Observed band size: 50 kDa

2. Sample:  
Lane 1: Raji (Human) Cell Lysate at 30 µg  
Lane 2: U251 (Human) Cell Lysate at 30 µg  
Primary: Anti-OPG (TMAB-01300) 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, WB  
Recommended WB: 1:500-2000; 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.

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### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human OPG

Antigen Species: Human

Gene ID: 4982

Uniprot ID: O00300

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

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

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### 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**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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