



## **Anti-Calcitonin receptor (CALCR), Rabbit-Polyclonal Antibody**

**Catalog No.** GB-30078  
**Antigen species:** Human  
**Host species:** Rabbit

**Quantity:** 100 $\mu$ g  
**Reactivity:** Human  
**Form:** Peptide affinity purified antibody

**Applications:** ELISA

### **Target description**

The calcitonin receptor is a member of the class B family of G protein-coupled receptors, closely related to secretin and parathyroid hormone receptors. The calcitonin receptor (CTR) gene in human osteoclasts formed in a human bone marrow cell culture system was examined by reverse transcription-polymerase chain reaction (RT-PCR). The RT-PCR results indicated that the 5'-untranslated region (5'UTR) was different between CTR mRNAs in human osteoclasts and in a mammary tumor cell line, MCF-7 cells.

### **Antigen**

This polyclonal antibody was raised by immunizing rabbit with a synthetic peptide located on the putative extracellular domain of human CALCR.

### **Application**

The antibody titer is more than 500K for ELISA. It has not been tested in the other applications. However, for the first testing, we recommend 1/5,000 dilution for ELISA, 1/1,000 dilution for Western blot analysis (WB) of recombinant protein, 1/400 dilution for tissue extracts or cell lysates, 1/100 dilution for immuno-histochemistry (IHC) staining on frozen cryosections, 1/50 dilution for IHC staining on paraffin embedded sections.

### **Related Products**

1. Anti-guanine nucleotide binding protein (G protein),  $\alpha$  polypeptide (GNAQ), pAb (GB-30070)
2. Anti-luteinizing hormone/choriogonadotropin receptor (LHCGR), pAb (GB-30071)
3. Anti-adrenergic, beta-1-, receptor (ADRB1) pAb (GB-30072)
4. Anti-adrenergic, beta-2-, receptor, surface (ADRB2) pAb (GB-30073)
5. Anti-angiotensin II receptor, type 1 (AGTR1) pAb (GB-30074)

| Ab dilution | Pre-bleed | Purified-Ab |
|-------------|-----------|-------------|
| 1:100       | 0.870     | 2.730       |
| 1:1,000     | 0.208     | 2.310       |
| 1:10,000    | 0.065     | 1.274       |
| 1:100,000   | 0.046     | 0.264       |
| 1:1,000,000 | 0.042     | 0.075       |
| Titer       |           | 662.5K      |

Antigen is coated on EIA strips at 1 $\mu$ g per well.

### **ELISA Protocol**

Add 200 $\mu$ l of blocking buffer and then wash wells with PBST buffer. Antiserum or peptide specific purified antibody GB-30078 is diluted in series as  $10^2 \sim 10^6$  folds and added in separate wells. Incubate antibody for 1hr. Wash unbound antibodies and add anti-rabbit IgG-HRP conjugate. Wash the plates and add substrate to develop color for 5 min. Read absorbance (ABS) at 650 nm. Amount of color is directly proportional to the amount of antibodies. Antibody is positive at >2 folds of ABS of control/Pre-Immune serum.

### **Storage**

It is supplied as peptide affinity purified antibody in lyophilized powder. Redissolve the powder with 100 microliter sterile water will restore to the original concentration 1mg/ml (1 $\times$ PBS). Store at 4 $^{\circ}$ C for short-term application. For long-term storage, aliquot and store at -20 $^{\circ}$ C.

### **References**

1. Dong, M., Pinon, D.I., Cox, R.F. and Miller, L.J. Importance of the amino terminus in secretin family G protein-coupled receptors. Intrinsic photoaffinity labeling establishes initial docking constraints for the calcitonin receptor. *J. Biol. Chem.* 279 (2): 1167-1175, 2004.
2. Seck, T., Baron, R. and Horne, W.C. Binding of filamin to the C-terminal tail of the calcitonin receptor controls recycling. *J. Biol. Chem.* 278 (12): 10408-10416, 2003.

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