



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

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

**Quantity:** 100µg  
**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), q 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
<b>Titer</b>		<b>662.5K</b>

Antigen is coated on EIA strips at 1µg per well.

### ELISA Protocol

Add 200µl 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×PBS). Store at 4°C for short-term application. For long-term storage, aliquot and store at -20°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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