

# PTH1R Polyclonal antibody

Catalog Number: 24275-1-AP

## Basic Information

<b>Catalog Number:</b> 24275-1-AP	<b>GenBank Accession Number:</b> BC110388	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 5745	<b>Recommended Dilutions:</b> WB 1:500-1:1000 IHC 1:200-1:800
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q03431	
<b>Isotype:</b> IgG	<b>Full Name:</b> parathyroid hormone 1 receptor	
<b>Immunogen Catalog Number:</b> AG17577	<b>Calculated MW:</b> 593 aa, 66 kDa	
	<b>Observed MW:</b> 70-80 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Species Specificity:**  
human, mouse

**Note-IHC:** suggested antigen retrieval with **TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB :** U2OS cells, HepG2 cells, mouse liver tissue

**IHC :** mouse kidney tissue, human pancreas cancer tissue

## Background Information

PTH1R is a receptor for parathyroid hormone and parathyroid hormone-related peptide (PTHrP). PTH1R is a glycoprotein with seven transmembrane domains and it has an extracellular N-terminus region and an intracellular C-terminus region. The activity of PTH1R is mediated by G proteins which activate adenylyl cyclase. It has been reported that PTHrP and PTH1R are associated with the differentiation of bone and cartilage in the developing stages. PTH1R has several isoforms with 66/59 kDa and PTH1R can form a 120 kDa dimer in the non-reducing condition. 24275-1-AP antibody detects 80 kDa protein which is similar to the results reported in publications.(PMID: 19507249, 27160269)

## Storage

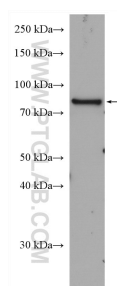
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

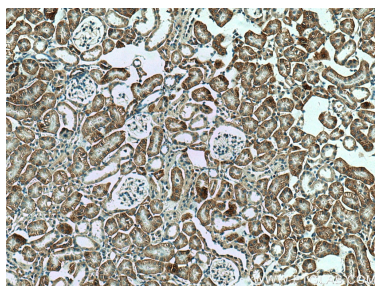
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## Selected Validation Data



U2OS cells were subjected to SDS PAGE followed by western blot with 24275-1-AP (PTH1R antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 24275-1-AP (PTH1R antibody) at dilution of 1:400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).