



# Chimeric Mouse Anti-Human Parathyroid Hormone-related Protein monoclonal antibody, clone 23-57-137-1 (CPBT-LL020)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG format, for improved compatibility with existing reagents, assays and techniques.
<b>Specificity</b>	The antibody binds to human PTHrP (The KD ~ 0.1 nM) at a site closely overlapping with the GPCR parathyroid hormone receptor 1 binding site - the epitope is between residues 20 and 30, with some contribution from residues 15-20 (aa 14-34 are important for receptor binding and aa1-34 are important for full signal transduction). PTHrP is known to be a causative factor of humoral hypercalcemia of malignancy (HHM), which is frequently found at advanced stages of cancer. The protein binds to PTHR1, which is expressed on the surface of cells of the osteoblast lineage and of the kidney tubule; this interaction actively promotes bone resorption, in a manner identical to that of PTH.
<b>Target</b>	PTHrP
<b>Immunogen</b>	The anti-PTHrP antibody was prepared by immunizing mice with synthetic bovine thyroglobulin-conjugated PTHrP (aa 1-34) and generating the hybridoma cell line #23-57-137-1.
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Clone</b>	23-57-137-1
<b>Purification</b>	Protein A affinity purified.
<b>Conjugate</b>	Unconjugated

<b>Applications</b>	Neut
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg, 1 mg
<b>Buffer</b>	PBS with 0.02% Proclin 300.
<b>Preservative</b>	View individual datasheet
<b>Storage</b>	Store at 4°C for up to 3 months. For longer storage, aliquot and store at - 20°C.
<b>Ship</b>	Wet ice

## GENE INFORMATION

UniProt ID [P12272](#)