



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

Product Overview	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.
Specificity	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.
Target	PTHLH
Immunogen	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.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	23-57-137-1
Purification	Protein A affinity purified.
Conjugate	Unconjugated

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

GENE INFORMATION

UniProt ID [P12272](#)
