

Procathepsin K Antibody

Rabbit Anti Rat Polyclonal Antibody

Catalog # ABV11709

Product Information

Application	WB
Primary Accession	P00786
Reactivity	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	37104

Additional Information

Gene ID	25425
Positive Control	Western Blot: Recombinant protein
Application & Usage	Western blot: 1-4 μ g/ml.
Other Names	CTSK, CTSO, CTSO3
Target/Specificity	Procathepsin K
Antibody Form	Liquid
Appearance	Colorless liquid
Formulation	30 μ g (0.5 mg/ml) of antibody in PBS pH 7.2 containing 0.01 % BSA, 0.01 % thimerosal, and 50 % glycerol.
Handling	The antibody solution should be gently mixed before use.
Reconstitution & Storage	-20 °C
Background Descriptions	
Precautions	Procathepsin K Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	Ctsh
Function	Important for the overall degradation of proteins in lysosomes.
Cellular Location	Lysosome.

Background

Cathepsin K, a member of the papain cysteine proteinase family, is the predominant proteinase responsible for the resorption of the bone matrix. Cathepsin cleaves proteins such as collagen type I, collagen type II and osteonectin, thereby playing a role in bone remodeling and resorption in osteoporosis, osteolytic bone metastasis and rheumatoid arthritis (Bromme and Okamoto, 1995; Drake, F. et al 1996; Bossard et al, 1996). Cathepsin K is produced as an inactive proenzyme (35.4 kDa) that is converted to its mature active form (23.5 kDa) by proteolytic cleavage of its 99-amino-acid propeptide domain. The in-vitro processing of Procathepsin K to mature Cathepsin K is autocatalytic.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.