




Product datasheet

Anti-Cathepsin K antibody [C1] ab239506

5 Images

Overview

Product name	Anti-Cathepsin K antibody [C1]
Description	Mouse monoclonal [C1] to Cathepsin K
Host species	Mouse
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Rat, Human, Pig Predicted to work with: Rabbit, Cow, Dog, Cynomolgus monkey, Rhesus monkey 
Immunogen	Recombinant full length protein (His-tag) corresponding to Human Cathepsin K aa 100 to the C-terminus. N-terminal His-tag (Expressed in E.coli). Database link: P43235  Run BLAST with  Run BLAST with
Positive control	WB: Human lung lysate; Pig uterus and heart lysates; Rat skeletal muscle lysate; Recombinant human Cathepsin K protein.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.011% Proclin 300 Constituents: 55.77% Glycerol (glycerin, glycerine), 44.219% PBS
Purity	Protein A/G purified
Purification notes	Purified from TCS.
Clonality	Monoclonal

Clone number	C1
Isotype	IgG2b
Light chain type	kappa

Applications

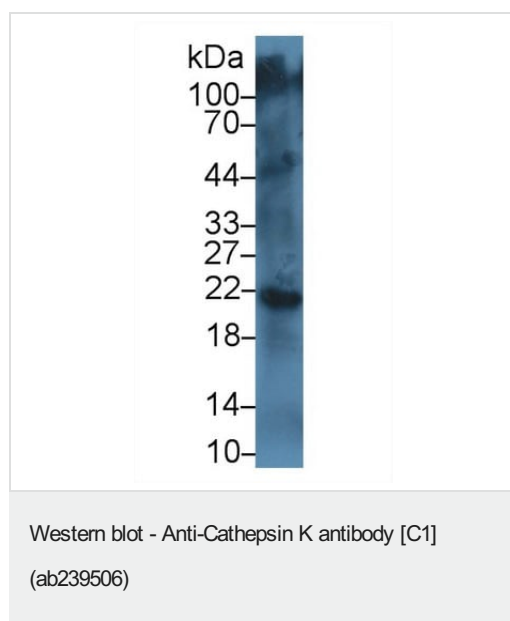
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab239506 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.5 - 5 µg/ml. Predicted molecular weight: 37 kDa.

Target

Function	Closely involved in osteoclastic bone resorption and may participate partially in the disorder of bone remodeling. Displays potent endoprotease activity against fibrinogen at acid pH. May play an important role in extracellular matrix degradation.
Tissue specificity	Predominantly expressed in osteoclasts (bones).
Involvement in disease	Defects in CTSK are the cause of pycnodysostosis (PKND) [MIM:265800]. PKND is an autosomal recessive osteochondrodysplasia characterized by osteosclerosis and short stature.
Sequence similarities	Belongs to the peptidase C1 family.
Cellular localization	Lysosome.

Images



Anti-Cathepsin K antibody [C1] (ab239506) at 3 µg/ml + Pig uterus lysate

Predicted band size: 37 kDa



Western blot - Anti-Cathepsin K antibody [C1]
(ab239506)

Anti-Cathepsin K antibody [C1] (ab239506) at 3 µg/ml + Pig heart lysate

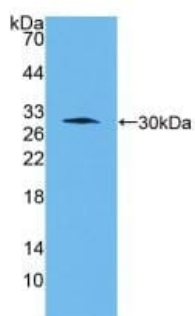
Predicted band size: 37 kDa



Western blot - Anti-Cathepsin K antibody [C1]
(ab239506)

Anti-Cathepsin K antibody [C1] (ab239506) at 3 µg/ml + Rat skeletal muscle lysate

Predicted band size: 37 kDa



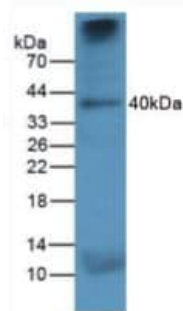
Western blot - Anti-Cathepsin K antibody [C1]
(ab239506)

Anti-Cathepsin K antibody [C1] (ab239506) at 2 µg/ml + Recombinant human Cathepsin K protein

Secondary

HRP-Linked Rabbit Anti-Mouse IgG at 1/5000 dilution

Predicted band size: 37 kDa



Western blot - Anti-Cathepsin K antibody [C1]
(ab239506)

Anti-Cathepsin K antibody [C1] (ab239506) at 2 µg/ml + Human lung lysate

Secondary

HRP-Linked Rabbit Anti-Mouse IgG at 1/5000 dilution

Predicted band size: 37 kDa

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