Anti-Cathepsin K antibody [3F9] ab37259

10 References 3 Images



Product name	Anti-Cathepsin K antibody [3F9]		
Description	Mouse monoclonal [3F9] to Cathepsin K		
Tested applications	ELISA, WB, IP, IHC-P, Flow Cyt		
Species reactivity	Reacts with: Human		
Immunogen	Recombinant fusion protein, corresponding to amino acids 115-329 of Human Cathepsin K. The protein contains at the N-terninal end a His tag (6x) and 6 additional amino acid residues (MRGSHHHHHHGS).		
Epitope	The monoclonal antibody ab37259 (clone 3F9) reacts with an epitope located between aa 115-329: APDSVDYRKKGYVTPNQGQCGSCWAFSSVGALEGQLKKKTGKLLNLSPQNLVDCVSENDGC GGGYMTNAFQYVQKNRGIDSEDAYPYVGQEESCMYNPTGKAAKCRGYREIPEGNEKALKRA VARVGPVSVAIDASLTSFQFSKGVYYDESCNSDNLNHAVLAVGYGIQKGNKHWIIKNSWGE NWGNKGYILMARNKNNACGIANLASFPKM		

Properties

Form	Liquid
Storage instructions	Aliquot and store at -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 0.1M Sodium chloride, 0.05M PBS, pH 7.2
Purity	Protein G purified
Clonality	Monoclonal
Clone number	3F9
Isotype	lgG2b
Annilis etiene	

Applications

Our Abpromise guarantee covers the use of ab37259 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
ELISA		Use at an assay dependent concentration.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 37, 40 kDa (predicted molecular weight: 37
		kDa).
IP		Use at an assay dependent concentration. PubMed: 24833013
IHC-P		Use at an assay dependent concentration.
How Cyt		Use 1µg for 10 ⁶ cells. Ab91366-Mouse monoclonal IgG2b, is suitable for use as an isotype control with this
		antibody.

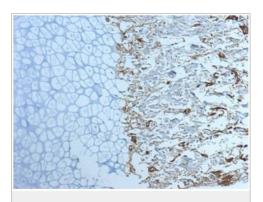
Target

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 osteclasts (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.	



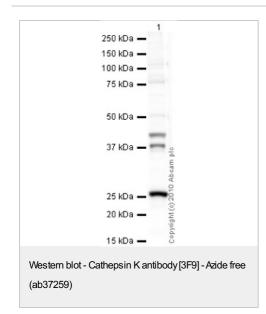
Product Datasheet

Anti-Cathepsin K antibody [3F9] images



Bone from mouse foot (bone marrow with osteoclasts (positive). IHC-P image was obtained after deparaffinization, antigen retrieval with 0.1 MEDTA(6-8 min, 72 C), drying of slide before staining (10 min, 62 C), and subsequent staining with primary antibody (1/100) in 1% horse serum (1 h, 37 C).

Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Cathepsin K antibody [3F9] -Azide free (ab37259)



Anti-Cathepsin K antibody [3F9] (ab37259) at 1 µg/ml + Bone (Human) Tissue Lysate - tumor tissue (ab29359) at 10 µg

Secondary

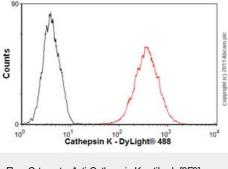
Goat polyclonal SecondaryAntibody to Mouse IgG - H&L (HRP), pre-adsorbed at 1/3000 dilution developed using the ECL technique

Performed under reducing conditions.

Predicted band size : 37 kDa Observed band size : 37 + 40 kDa Additional bands at : 26 kDa (possible cleavage fragment).

Exposure time : 1 minute

Product Datasheet



Flow Cytometry-Anti-Cathepsin K antibody [3F9] -Azide free(ab37259) Overlay histogram showing U20S cells stained with ab37259 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3Mglycine to block nonspecific protein-protein interactions. The cells were then incubated with the antibody (ab37259, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2b [PLPV219] (ab91366, $2\mu g/1x10^6$ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in U20S cells fixed with 4% paraformaldehyde (10 min)/permeabilized in 0.1% PBS-Tween used under the same conditions.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery**
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- · Extensive multi-media technical resources to help you
- · We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit http://www.abcam.com/abpromise or contact our technical team.

Terms and conditions

- · Guarantee only valid for products bought direct from Abcam or one of our authorized distributors
- **Regional variations to our Abpromise may apply to the following countries: China, Korea, Singapore, Malaysia, Taiwan and Thailand, which operate a 120 day guarantee.
 Please contact your regional office for further details

Visit us at: www.abcam.com