

PRODUCT DATA SHEET

Cathepsin K Human, Mouse Monoclonal Antibody, Clone: 3F9

Cat. No.: RD1820741003F9-01**Size:** 0.1 mg**Source of Antigen:** E. coli**Type:** Monoclonal Antibody**Host:** Mouse**Isotype:** IgG2b**Other Names:****Preparation:**

The antibody is a mouse monoclonal antibody against recombinant Human Cathepsin K. The antibody was produced *in vitro* using hybridomas grown in serum-free medium.

Amino Acid Sequence of Immunogen:

The Human Cathepsin K is the part of the Human Procathepsin K. The Human Cathepsin K containing 224 amino acid residues of the Human Procathepsin K.

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MRGSHHHHHH  GSLYPEEILD  THWELWKKTH  RKQYNNKVDE  ISRRLIWEKN  LKYISIHNLE  
ASLGVHTYEL  AMNHLGDMTS  EEVVQKMTGLK  VPLSHSRSD  TLYIPEWEGR  APDSVDYRKK  
GYVTPVKNQG  QCGSCWAFSS  VGALEGQLKK  KTGKLLNLSP  QNLVDCVSEN  DCGGGYMTN  
AFQYVQKNRG  IDSEDAYPYV  GQEESCMYNP  TGKAAKCRGY  REIPEGNEKA  LKRAVARVGP  
VSVDAIDASLT  SFQFYKGVY  YDESCNSDNL  NHAFLAVGYG  IQKGNKHVII  KNSWGENWGN  
KGYILMARNK  NNACGIANLA  SFPKM
```

Purification Method:

Immunoaffinity chromatography on a column with immobilized protein G.

Species Reactivity:

Human. Not yet tested in other species.

Antibody Content:

0.1 mg (determined by BCA method, BSA was used as a standard)

Formulation:

The antibody is lyophilized in 0.05 M phosphate buffer, 0.1 M NaCl, pH 7.2.

Reconstitution:

Add 0.2 ml of deionized water and let the lyophilized pellet dissolve completely. Slight turbidity may occur after reconstitution, which does not affect activity of the antibody. In this case clarify the solution by centrifugation.

Shipping:

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage/Stability:

The lyophilized antibody remains stable and fully active until the expiry date when stored at -20°C. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles and store frozen at -80°C. Reconstituted antibody can be stored at 4°C for a limited period of time; it does not show decline in activity after one week at 4°C.

Quality Control:

Indirect ELISA – to determine titer of the antibody

SDS PAGE – to determine purity of the antibody

BCA - to determine quantity of the antibody

Applications:

Immunohistochemistry, Western blotting

Note:

This product is for research use only.