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CTSK Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant CTSK.
Catalog # AT1681a

Product Information

Application	WB, IHC, E
Primary Accession	P43235
Other Accession	BC016058
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	2F1
Calculated MW	36966

Additional Information

Gene ID	1513
Other Names	Cathepsin K, Cathepsin O, Cathepsin O2, Cathepsin X, CTSK, CTSO, CTSO2
Target/Specificity	CTSK (AAH16058, 220 a.a. ~ 329 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	CTSK Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

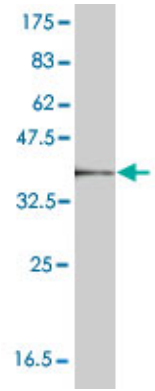
The protein encoded by this gene is a lysosomal cysteine proteinase involved in bone remodeling and resorption. This protein, which is a member of the peptidase C1 protein family, is predominantly expressed in osteoclasts. However, the encoded protein is also expressed in a significant fraction of human breast cancers, where it could contribute to tumor invasiveness. Mutations in this gene are the cause of pycnodysostosis, an autosomal recessive disease characterized by osteosclerosis and short stature. This gene may be subject to RNA editing.

References

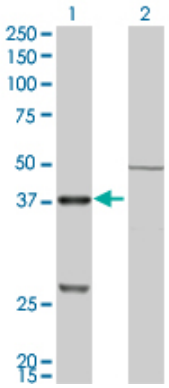
1.Simultaneous expression of Cathepsins B and K in pulmonary adenocarcinomas and squamous cell

carcinomas predicts poor recurrence-free and overall survival.Cordes C, Bartling B, Simm A, Afar D, Lautenschlager C, Hansen G, Silber RE, Burdach S, Hofmann HS.Lung Cancer. 2009 Apr;64(1):79-85. Epub 2008 Aug 29.

Images

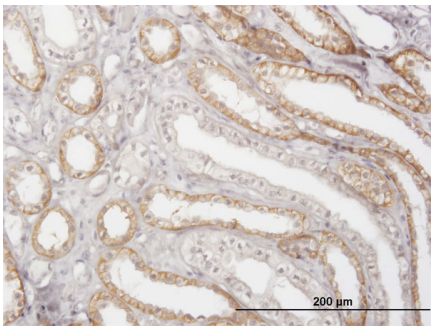


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.95 KDa) .

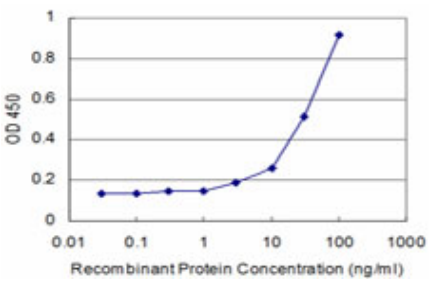


Western Blot analysis of CTSK expression in transfected 293T cell line by CTSK monoclonal antibody (M01), clone 2F1.

Lane 1: CTSK transfected lysate(37 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to CTSK on formalin-fixed paraffin-embedded human kidney. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged CTSK is approximately 3ng/ml as a capture antibody.

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