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LEPRE1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant LEPRE1.
Catalog # AT2696a

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q32P28
Other Accession	BC015309
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3C7
Calculated MW	83394

Additional Information

Gene ID	64175
Other Names	Prolyl 3-hydroxylase 1, Growth suppressor 1, Leucine- and proline-enriched proteoglycan 1, Leprecan-1, LEPRE1, GROS1, P3H1
Target/Specificity	LEPRE1 (AAH15309, 1 a.a. ~ 100 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 IF~~1:50~200 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	LEPRE1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

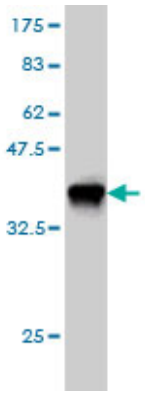
This gene encodes an enzyme that is a member of the collagen prolyl hydroxylase family. These enzymes are localized to the endoplasmic reticulum and their activity is required for proper collagen synthesis and assembly. Mutations in this gene are associated with osteogenesis imperfecta type VIII. Two alternatively spliced transcript variants encoding different isoforms have been described. Other variants may exist, but their biological validity has not been determined.

References

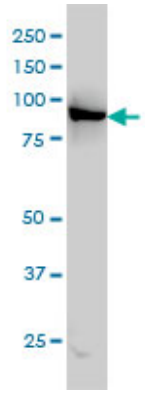
1.Proteomic dissection of the VHL interactome.Lai Y, Song M, Hakala K, Weintraub ST, Shiio Y.J Proteome Res.

2011 Oct 11.2.Severe osteogenesis imperfecta in cyclophilin B-deficient mice.Choi JW, Sutor SL, Lindquist L, Evans GL, Madden BJ, Bergen HR 3rd, Hefferan TE, Yaszemski MJ, Bram RJ.PLoS Genet. 2009 Dec;5(12):e1000750. Epub 2009 Dec 4.3.Prolyl 3-hydroxylase 1 deficiency causes a recessive metabolic bone disorder resembling lethal/severe osteogenesis imperfecta.Cabral WA, Chang W, Barnes AM, Weis M, Scott MA, Leikin S, Makareeva E, Kuznetsova NV, Rosenbaum KN, Tifft CJ, Bulas DI, Kozma C, Smith PA, Eyre DR, Marini JC.Nat Genet. 2007 Mar;39(3):359-65. Epub 2007 Feb 4.

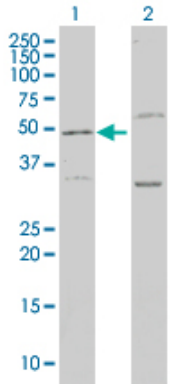
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

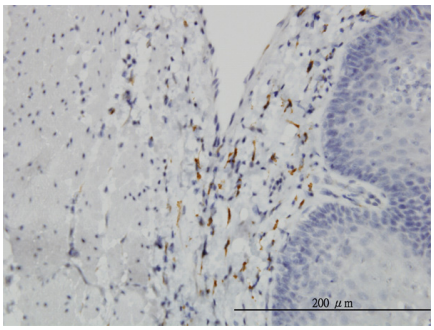


LEPRE1 monoclonal antibody (M01), clone 3C7 Western Blot analysis of LEPRE1 expression in HeLa ((Cat # AT2696a)

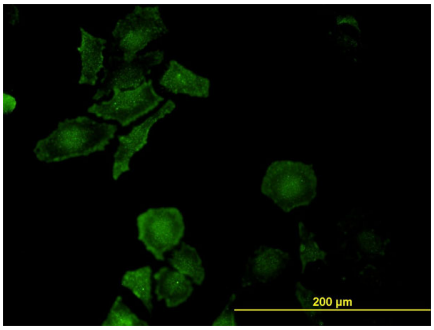


Western Blot analysis of LEPRE1 expression in transfected 293T cell line by LEPRE1 monoclonal antibody (M01), clone 3C7.

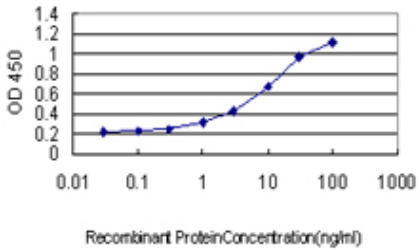
Lane 1: LEPRE1 transfected lysate(46 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to LEPRE1 on formalin-fixed paraffin-embedded human esophagus. [antibody concentration 6 ug/ml]



Immunofluorescence of monoclonal antibody to LEPRE1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged LEPRE1 is approximately 0.3ng/ml as a capture antibody.

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