Product datasheet
Anti-MMP13 Antibody
Catalog Number: A00420



BOSTER BIOLOGICAL TECHNOLOGY

Special NO.1, International Enterprise Center, 2nd Guanshan Road, Wuhan, China

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	nti-MMP13 Antibody MP13
Gene Name MN	MP13
Source Ra	abbit
Isotype Ig0	G
Species Reactivity hu	uman, monkey
Tested Application WI	В
Contents 50	00 ug/ml antibody with PBS ,0.02% NaN3 , 1 mg BSA and 50% glycerol.
(10 the	synthetic peptide corresponding to a sequence at the N-terminus of human MMP13 09-154aa RTLKWSKMNLTYRIVNYTPDMTHSEVEKAFKKAFKVWSDVTPLNFT), different from the related mouse sequence by four amino acids, and from the related rat sequence by five mino acids.
concentration 50	00 ug/ml
Purification Im	nmunogen affinity purified.
Observed MW 54	4KD
Dilution Ratios We	estern blot(WB):1:500-2000

Storage

12 months from date of receipt, -20°C as supplied. 6 months 2 to 8°C after reconstitution. Avoid repeated freezing and thawing.

Background Information

Collagenase 3 is an enzyme that in humans is encoded by the MMP13 gene. This gene encodes a member of the peptidase M10 family of matrix metalloproteinases (MMPs). Proteins in this family are involved in the breakdown of extracellular matrix in normal physiological processes, such as embryonic development, reproduction, and tissue remodeling, as well as in disease processes, such as arthritis and metastasis. The encoded preproprotein is proteolytically processed to generate the mature protease. This protease cleaves type II collagen more efficiently than types I and III. It may be involved in articular cartilage turnover and cartilage pathophysiology associated with osteoarthritis. Mutations in this gene are associated with metaphyseal anadysplasia. This gene is part of a cluster of MMP genes on chromosome 11.

Selected Validation Data

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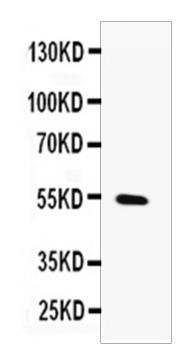


Figure 1. Western blot analysis of MMP13 using anti-MMP13 antibody (A00420). The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: HELA whole cell lysates. probed with a goat anti-rabbit IgG-HRP secondary antibody . The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) A specific band was detected for MMP13 at approximately 54KD. The expected band size for MMP13 is at 54KD.