Datasheet for ABIN7600880

anti-MMP13 antibody (AA 249-471)

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Overview

Quantity:	100 µg
Target:	MMP13
Binding Specificity:	AA 249-471
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MMP13 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Purpose:	Anti-MMP13 Antibody Picoband®
Immunogen:	E.coli-derived human MMP13 recombinant protein (Position: K249-C471).
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-MMP13 Antibody Picoband® (ABIN7600880). Tested in ELISA, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	MMP13
Alternative Name:	MMP13 (MMP13 Products)
Background:	Synonyms: Collagenase 3, Matrix metalloproteinase-13, MMP-13, UMRCASE, Mmp13 Background: 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.
Molecular Weight:	54 kDa
Gene ID:	4322
UniProt:	P45452

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human ELISA, 0.1-0.5 µg/mL, - 1. Bonafe, L., Liang, J., Gorna, M. W., Zhang, Q., Ha-Vinh, R., Campos-Xavier, A. B., Unger, S., Beckmann, J. S., Le Bechec, A., Stevenson, B., Giedion, A., Liu, X., Superti-Furga, G., Wang, W., Spahr, A., Superti-Furga, A. MMP13 mutations are the cause of recessive metaphyseal dysplasia, Spahr type. Am. J. Med. Genet. 164A: 1175-1179, 2014. 2. Freije, J. M. P., Diez-Itza, I., Balbin, M., Sanchez, L. M., Blasco, R., Tolivia, J., Lopez-Otin, C. Molecular cloning and expression of collagenase-3, a novel human matrix metalloproteinase produced by breast carcinomas. J. Biol. Chem. 269: 16766-16773, 1994. 3. Inada, M., Wang, Y., Byrne, M. H., Rahman, M. U., Miyaura, C., Lopez-Otin, C., Krane, S. M. Critical roles for collagenase-3 (Mmp13) in development of growth plate cartilage and in endochondral ossification. Proc. Nat. Acad. Sci. 101: 17192-17197, 2004.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.