

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Matrilin-1 in ELISAs. In direct ELISAs, no cross-reactivity with recombinant human Matrilin-2, -3, or -4 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 828806
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived recombinant human Matrilin-1 Ser23-Val496 Accession # P21941
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Matrilin-1, also known as Cartilage Matrix Protein (CMP) is a 50-60 kDa extracellular matrix protein that belongs to the superfamily of von Willebrand factor A (VWA) containing proteins. It is primarily expressed in cartilage and functions as a bridging component between proteins of the collagenous matrix. Mature human Matrilin-1 contains two VWA domains that flank one EGF-like repeat, followed by a C-terminal coiled coil domain. The Matrilins differ in the number of VWA domains (one or two) and EGF-like repeats (one, three, four, or ten) they contain. Human Matrilin-1 shares 91% aa sequence identity with human and rat Matrilin-1. The coiled coil domain of Matrilin-1 mediates disulfide-linked homo-trimer formation. It can also assemble into hetero-oligomers with Matrilin-2, -3, and -4.

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