Human Matrilin-1 Antibody

Monoclonal Mouse IgG_1 Clone # 828806

Catalog Number: MAB7878

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
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

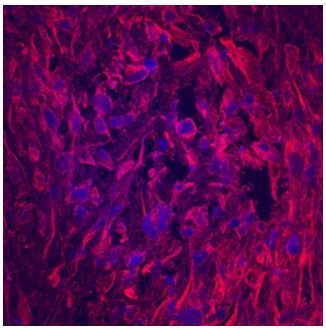
APPLICATIONS

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.*

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



Matrilin-1 in Human Mesenchymal Stem Cells. Matrilin-1 was detected in immersion fixed human mesenchymal stem cells differentiated into chondrocytes using Mouse Anti-Human Matrilin-1 Monoclonal Antibody (Catalog # MAB7878) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgG Secondary Antibody (red; Catalog # NL007) and counterstained with DAPI (blue). Specific staining was localized to cartilage matrix. View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.2 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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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