Store at

#33437

ខ្លុ ECM Profiling Antibody Sampler Kit



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For Research Use Only. Not for Use in Diagnostic Procedures.

1 Kit (9 x 20 microliters)

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
MMP-1 (E9S9N) Rabbit mAb	54376	20 µl	55 kDa	Rabbit IgG
MMP-2 (D4M2N) Rabbit mAb	40994	20 µl	64,72 kDa	Rabbit IgG
MMP-9 (D6O3H) XP [®] Rabbit mAb	13667	20 µl	84, 92 kDa	Rabbit IgG
MMP-13 (E4W3T) Rabbit mAb	69926	20 µl	60 kDa	Rabbit IgG
Fibronectin/FN1 (E5H6X) Rabbit mAb	26836	20 µl	300 kDa	Rabbit IgG
MMP-3 (D7F5B) Rabbit mAb	14351	20 µl	60 kDa	Rabbit IgG
LOX (D8F2K) Rabbit mAb	58135	20 µl	54, 56 kDa	Rabbit IgG
COL11A1 (E6O7R) Rabbit mAb	70458	20 µl	250 kDa	Rabbit IgG
COL1A1 (E6A8E) Rabbit mAb	39952	20 µl	220 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description	The ECM Profiling Antibody Sampler Kit provides an economical means of detecting endogenous levels of the specific ECM components using the corresponding antibodies. The kit includes enough antibodies to perform two western blot experiments with each primary antibody.
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.
Background	The extracellular matrix (ECM) is a cell surface associated three-dimensional macromolecular network composed of collagens, proteoglycans/glycosaminoglycans, elastin, fibronectin, laminins, and several other glycoproteins (1). The network provides a dynamic microenvironment surrounding the cell enabling it to carry on its function. Among the ECM proteins, fibronectin functions as a mediator to bridge distinct ECM components such as collagens, growth factors, as well as cell surface integrins to regulate ECM structural change and initiate signaling pathways (2). During normal development and pathological conditions, the ECM network is highly dynamic and continuously undergoes remodeling marked by the change of the ECM structural components, such as COL1A1, COL11A1, fibronectin, and versican. The matrix-degrading enzyme MMPs such as MMP1, MMP2, and MMP9 are highly involved in this process (4). Additional players in this process are the LOX family members of lysyl oxidase. They catalyze the first step of the covalent cross-linking of ECM proteins, collagens, and elastin, which contributes to ECM stiffness and mechanical properties (5).
Background References	1. Theocharis, A.D. et al. (2019) <i>FEBS J</i> 286, 2830-69. 2. Zollinger, A.J. and Smith, M.L. (2017) <i>Matrix Biol</i> 60-1, 27-37. 3. Paolillo, M. and Schinelli, S. (2019) <i>Int J Mol Sci</i> 20, pii: E4947. doi: 10.3390/ijms20194947. 4. Bonnans, C. et al. (2014) <i>Nat Rev Mol Cell Biol</i> 15, 786-801. 5. Amendola, P.G. et al. (2019) <i>Cancers (Basel)</i> 11, pii: E729. doi: 10.3390/cancers11050729.
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