#96321

## COL11A1 (E6X3Y) Rabbit mAb





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

Applications: W, IP, FC-FP	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 250	Source/Isotype: Rabbit IgG	UniProt ID: #P12107	Entrez-Gene Id: 1301
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Flow Cytometry (Fixed	l/Permeabilized)		<b>Dilutio</b> 1:1000 1:100 1:200 -	<b>n</b> 1:800
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. <i>Do not aliquot the antibody.</i>				
	For a carrier free (BSA and azide free) version of this product see product #4					
Specificity/Sens	<b>Specificity/Sensitivity</b> COL11A1 (E6X3Y) Rabbit mAb recognizes endogenous levels of total COL11A1 protein				n.	
Source / Purification Monoclonal antibody is produced by immunizing an residues surrounding Glu320 of human COL11A1 pr			nunizing animals with a s COL11A1 protein.	synthetic peptide co	prresponding to	
Background		The Extracellular Matrix (ECM) is a complex network of macromolecules that provides structural tissue support to cells in the basement membrane and interstitial matrix. It is composed of many molecules, including proteins, glycoproteins, proteoglycans, and polysaccharides (1,2). One of the major proteins that comprise the ECM, and the human body, is collagen. Collagens are a large family of proteins. They are trimeric molecules composed of three alpha polypeptide chains that form a triple helix structure that is characteristic of all collagens (3). The large family of collagens is divided into three subgroups: the fibrillar collagens, the non-fibril forming collagens, and the fibril-associated collagens. These subgroups differ in their structure and supramolecular assembly (3).				
		Collagen11A1 (COL11 most normal tissues v other tissues/ organs, expression of this mo data from multiple ca associated with epithe fibroblasts (CAFs) are are thought to contrib and resistance to che may contribute to che	A1) is a minor fibrill with the exception of where it is express lecule is correlated ncers, including ova elial-mesenchymal t typically the most a bute to ECM stiffnes motherapeutic inter- emotherapy resistar	ar collagen that is not no of cartilage, where it is ex- ed at a lower level (4). Ho with advanced tumorige arian, colon, breast, and cransition (EMT) and met bundant cell type in the s, which is ultimately the rvention. COL11A1 has brace (8).	ormally expressed a corressed in high lev owever, it has been enic disease through lung (5). Additional castasis (6,7). Cance stroma of many so ought to contribute een found to be ele	It high levels in els, and some reported that the n meta analysis of y, it has also been r associated lid tumors. They to tumor growth evated in CAFs and
Background Ret	ferences	1. Barkan, D. et al. (20 2. Hynes, R.O. (2009) 3. Ricard-Blum, S. (20 4. Yoshioka, H. et al. ( 5. Kim, H. et al. (2010) 6. Cheon, D.J. et al. (20 7. Fuentes-Martínez, N 8. Sok, J.C. et al. (2013)	10) Eur J Cancer 46, Science 326, 1216-9. 11) Cold Spring Ham 1995) Dev Dyn 204, BMC Med Genomic 014) Clin Cancer Res N. et al. (2015) Histo ) Br J Cancer 109, 30	1181-8. b Perspect Biol 3, a00497 41-7. cs 3, 51. 5 20, 711-23. l Histopathol 30, 87-93. 049-56.	78.	
Species Reactiv	ity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Bu	uffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				
Applications Ke	у	W: Western Blotting IP: Immunoprecipitation FC-FP: Flow Cytometry (Fixed/Permeabilized)				
Cross-Reactivity	/ Key	H: Human				

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