

## 42818

## **COL11A1 Antibody**



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

Applications: W	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 250	<b>Source/Isotype:</b> Rabbit	UniProt ID: #P12107	Entrez-Gene Id: 1301
Product Usage Information		<b>Application</b> Western Blotting			<b>Dilution</b> 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		COL11A1 Antibody recognizes endogenous levels of total COL11A1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Glu320 of human COL11A1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
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).				
		most normal tissues v other tissues/ organs, expression of this mol data from multiple cal associated with epithe fibroblasts (CAFs) are are thought to contrib	with the exception of where it is express ecule is correlated neers, including overlial-mesenchymal itypically the most abute to ECM stiffnesmotherapeutic intelligible.	ar collagen that is not not not cartilage, where it is exed at a lower level (4). However, colon, breast, and cransition (EMT) and metals, which is ultimately the colon. COL11A1 has bece (8).	xpressed in high lev owever, it has been enic disease throug lung (5). Additional tastasis (6,7). Cance stroma of many so ought to contribute	rels, and some reported that the h meta analysis of ly, it has also been r associated lid tumors. They
Background References		1. Barkan, D. et al. (2010) <i>Eur J Cancer</i> 46, 1181-8. 2. Hynes, R.O. (2009) <i>Science</i> 326, 1216-9. 3. Ricard-Blum, S. (2011) <i>Cold Spring Harb Perspect Biol</i> 3, a004978. 4. Yoshioka, H. et al. (1995) <i>Dev Dyn</i> 204, 41-7. 5. Kim, H. et al. (2010) <i>BMC Med Genomics</i> 3, 51. 6. Cheon, D.J. et al. (2014) <i>Clin Cancer Res</i> 20, 711-23. 7. Fuentes-Martínez, N. et al. (2015) <i>Histol Histopathol</i> 30, 87-93. 8. Sok, J.C. et al. (2013) <i>Br J Cancer</i> 109, 3049-56.				

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween\$ 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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