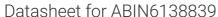
antibodies - online.com







anti-COL1A2 antibody (AA 500-600)





Publications



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Quantity:	100 μL	
Target:	COL1A2	
Binding Specificity:	AA 500-600	
Reactivity:	Human	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This COL1A2 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)	
Product Details		
Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 500-600 of human Collagen I/COL1A2 (NP_000080.2).	
Sequence:	PTGDPGKNGD KGHAGLAGAR GAPGPDGNNG AQGPPGPQGV QGGKGEQGPP GPPGFQGLPG PSGPAGEVGK PGERGLHGEF GLPGPAGPRG ERGPPGESGA A	
Isotype:	IgG	
Cross-Reactivity:	Human, Mouse, Rat	
Characteristics:	Polyclonal Antibodies	
Purification:	n: Affinity purification	

Target Details

Target:	COL1A2	
Alternative Name:	COL1A2 (COL1A2 Products)	
Background:	This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two	
	alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective	
	tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are	
	associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB,	
	recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan	
	syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe	
	than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the	
	different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of	
	alternate polyadenylation signals, have been identified for this gene.,COL1A2,OI4,Signal	
	Transduction,Cell Biology & Developmental Biology,Cytoskeleton,Extracellular	
	Matrix,Collagen,Growth factor,Stem Cells,Mesenchymal Stem Cells,COL1A2	
Molecular Weight:	129 kDa	
Gene ID:	1278	
UniProt:	P08123	
Application Details		
Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:25 - 1:200	
Comment:	HIGH QUALITY	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	
	should be handled by trained staff only.	
Storage:	-20 °C	
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.	

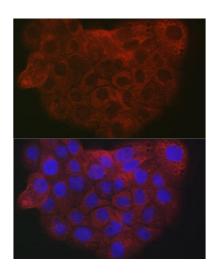
Product cited in:

Jiang, He, Zhu, Liang, Wang, Lu, Ren, Yi, Xiao, Wang: "Endoplasmic reticulum stress-dependent ROS production mediates synovial myofibroblastic differentiation in the immobilization-induced rat knee joint contracture model." in: **Experimental cell research**, Vol. 369, Issue 2, pp. 325-334, (2018) (PubMed).

Yu, Zheng, Yang, Fei, Wang, Hou, Sun, Shen: "N-AC-I-Leu-PEI-mediated miR-34a delivery improves osteogenic differentiation under orthodontic force." in: **Oncotarget**, Vol. 8, Issue 66, pp. 110460-110473, (2017) (PubMed).

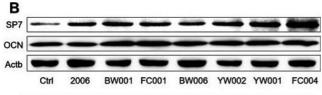
Li, Wan, Zhang, Li, Han: "Quantitative proteomic analysis and comparison of two bone marrow stromal cell lines using the SILAC method." in: **Experimental hematology**, Vol. 44, Issue 11, pp. 1059-1071, (2017) (PubMed).

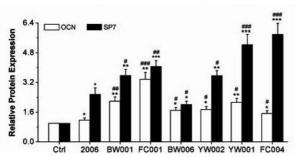
Images



Immunofluorescence

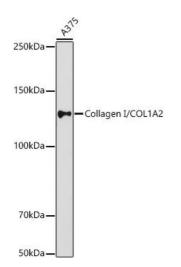
Image 1. Immunofluorescence analysis of A-431 cells using Collagen I/COL1 antibody (ABIN6134502, ABIN6138839, ABIN6138840 and ABIN6221469) at dilution of 1:25. Blue: DAPI for nuclear staining.





Western Blotting

Image 2. Effects of ODNs on osteogenic differentiation gene expression. a Quantitative real-time PCR analysis of SP7 and OCN mRNA expression of MC3T3 cells treated with selected CpG ODNs for 1 day, 3 days and 5 days. n = 3. b Western blot analysis of SP7 and OCN protein levels of MC3T3 cells treated with selected CpG ODNs for 3 days. n = 3. Data were expressed as mean \pm SD of three independent experiments. *P < 0.05, **P < 0.01 and ***P < 0.001 compared with the control group and #P < 0.05, ##P < 0.01



and ###P < 0.001 compared with the ODN 2006 group by paired t test - figure provided by CiteAb. Source: PMID32795334

Western Blotting

Image 3. Western blot analysis of extracts of cells, using Collagen I/COL1 antibody (ABIN6134502, ABIN6138839, ABIN6138840 and ABIN6221469) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 μg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.

Please check the product details page for more images. Overall 5 images are available for ABIN6138839.