

ARG20786 anti-Collagen III antibody, pre-adsorbed

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes Collagen III
Tested Reactivity	Hu, Ms, Rat, Bov, Chk, Dog, Hm, Pig, Rb
Tested Application	ELISA, EM, FACS, ICC/IF, IHC-Fr, IHC-P, WB
Specificity	The antibody reacts with conformational determinants on type III collagen. The antibody is pre-adsorbed with Collagen types I, II, IV, V and VI, so the antibody may not react with Collagen types I, II, IV, V and VI.
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	Collagen III
Species	Human
Immunogen	Human Type III collagen
Conjugation	Un-conjugated
Alternate Names	EDS4A; Collagen alpha-1(III) chain

Application Instructions

Pre Adsorbed	Collagen types I, II, IV, V and VI.	
Application table	Application	Dilution
	ELISA	Assay-dependent
	EM	Assay-dependent
	FACS	Assay-dependent
	ICC/IF	Assay-dependent
	IHC-Fr	Assay-dependent
	IHC-P	Assay-dependent
	WB	1:100 - 1:1000
Application Note	WB: The antibody reacts with native and denature form of Collagen III protein. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

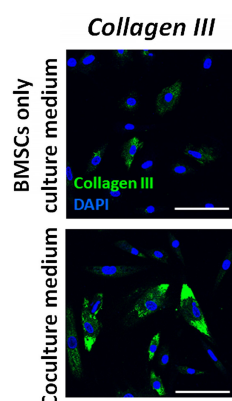
Form	Liquid
Purification	Affinity purification with immunogen.

Buffer	BBS (pH 8.2)
Concentration	0.4 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	COL3A1
Gene Full Name	collagen, type III, alpha 1
Background	This gene encodes the pro-alpha1 chains of type III collagen, a fibrillar collagen that is found in extensible connective tissues such as skin, lung, uterus, intestine and the vascular system, frequently in association with type I collagen. Mutations in this gene are associated with Ehlers-Danlos syndrome types IV, and with aortic and arterial aneurysms. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalglish, Feb 2008]
Function	Collagen type III occurs in most soft connective tissues along with type I collagen. Involved in regulation of cortical development. Is the major ligand of GPR56 in the developing brain and binding to GPR56 inhibits neuronal migration and activates the RhoA pathway by coupling GPR56 to GNA13 and possibly GNA12. [UniProt]
Calculated Mw	139 kDa
PTM	Proline residues at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. O-linked glycan consists of a Glc-Gal disaccharide bound to the oxygen atom of a post-translationally added hydroxyl group.

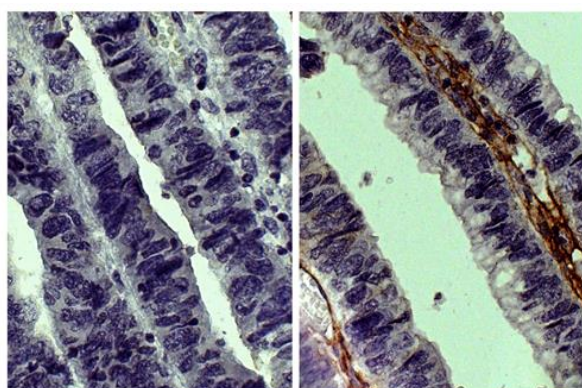
Images



ARG20786 anti-Collagen III antibody, pre-adsorbed ICC/IF image

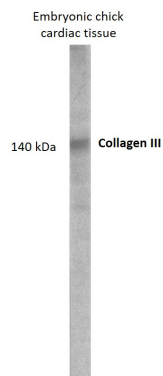
Immunofluorescence: Rabbit bone marrow stromal cells stained with ARG20786 anti-Collagen III antibody, pre-adsorbed.

From Cheng-Chang Lu et al. Bone Joint Res. (2023), [doi: 10.1302/2046-3758.121.BJR-2021-0434.R2](https://doi.org/10.1302/2046-3758.121.BJR-2021-0434.R2), Fig. 6.



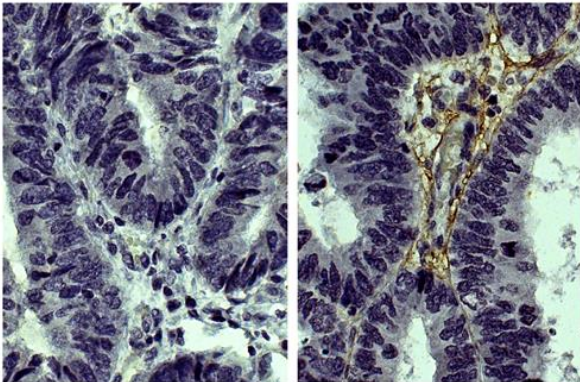
ARG20786 anti-Collagen III antibody (pre-adsorbed) IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric cancer tissue stained with [ARG23772](#) Goat IgG Isotype Control antibody (left) and ARG20786 anti-Collagen III antibody (pre-adsorbed) (right) followed by [ARG23857](#) Swine anti-Goat IgG (H+L) antibody (HRP) (pre-adsorbed), DAB and hematoxylin.



ARG20786 anti-Collagen III antibody, pre-adsorbed WB image

Western blot: Embryonic chick cardiac tissue samples separated by SDS-PAGE and stained with ARG20786 anti-Collagen III antibody (pre-adsorbed) under reducing conditions.



ARG20786 anti-Collagen III antibody (pre-adsorbed) IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric cancer tissue stained with [ARG23772](#) Goat IgG Isotype Control antibody (left) and ARG20786 anti-Collagen III antibody (pre-adsorbed) (right) followed by [ARG23857](#) Swine anti-Goat IgG (H+L) antibody (HRP) (pre-adsorbed), DAB and hematoxylin.