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ARG40293
anti-PICP / Procollagen I (C-Peptide) antibody [PC8-7]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [PC8-7] recognizes PICP / Procollagen I (C-Peptide)
Tested Reactivity	Hu, Bov, Dog, Hrs
Species Does Not React With	Rat, Rb
Tested Application	ELISA, IHC-Fr, IHC-P, WB
Specificity	The antibody recognizes non-denatured Human, Bovine, Dog and Horse PICP. They do not react with Rat or Rabbit PICP.
Host	Mouse
Clonality	Monoclonal
Clone	PC8-7
Isotype	IgG1
Target Name	PICP / Procollagen I (C-Peptide)
Species	Human
Immunogen	Human PICP / Procollagen I (C-Peptide).
Conjugation	Un-conjugated
Alternate Names	OI1; OI2; OI3; OI4; EDSC; Collagen alpha-1(I) chain; Alpha-1 type I collagen

Application Instructions

Application table

Application	Dilution
ELISA	0.2 µg/ml
IHC-Fr	10 µg/ml
IHC-P	10 µg/ml
WB	10 µg/ml

Application Note

Sandwich ELISA: ARG40293 as capture antibody; ARG40292 as detection antibody.
WB: Under non-reducing and non-heating conditions.
IHC: Antigen Retrieval: Proteinase K treatment.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Buffer	10 mM PBS (pH 7.4) and 1% BSA.
Stabilizer	1% BSA

Concentration	2 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	COL1A1
Gene Full Name	collagen, type I, alpha 1
Background	This gene encodes the pro-alpha1 chains 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 VIIA, Ehlers-Danlos syndrome Classical type, Caffey Disease and idiopathic osteoporosis. Reciprocal translocations between chromosomes 17 and 22, where this gene and the gene for platelet-derived growth factor beta are located, are associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from unregulated expression of the growth factor. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish, Feb 2008]
Function	Type I collagen is a member of group I collagen (fibrillar forming collagen). [UniProt]
Highlight	Related products: Collagen I antibodies; Collagen I ELISA Kits; Collagen I Duos / Panels; Anti-Mouse IgG secondary antibodies; Related news: New antibody panels for Myofibroblasts and CAFs
Calculated Mw	139 kDa
PTM	Proline residues at the third position of the tripeptide repeating unit (G-X-P) are hydroxylated in some or all of the chains. Proline residues at the second position of the tripeptide repeating unit (G-P-X) are hydroxylated in some of the chains. O-linked glycan consists of a Glc-Gal disaccharide bound to the oxygen atom of a post-translationally added hydroxyl group. [UniProt]
Cellular Localization	Secreted, extracellular space, extracellular matrix. [UniProt]