

Product datasheet for **AP05388PU-N**

Col1a1 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, R
Recommended Dilution:	ELISA: 1/100-1/400. Immunofluorescence: 1/50-1/100. Radioimmunoassays. Immunohistochemistry on Frozen Sections. Immunohistochemistry on Paraffin Sections: 1/250-1/1000.
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Native type I Collagen from Mouse skin.
Specificity:	This antibody is specific for Mouse Collagen type I. Less than 1% cross reactivity has been observed with Mouse Collagen, types II, VI and III and Human, Chicken and Rat Collagen, type I.
Formulation:	Phosphate buffered saline containing 0.09% Sodium Azide as preservative. State: Purified State: Liquid purified Ig fraction
Purification:	Affinity Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	collagen, type I, alpha 1
Database Link:	Entrez Gene 12842 Mouse P11087



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Background:

Collagens are highly conserved throughout evolution and are characterised by an uninterrupted "Glycine X Y" triplet repeat that is a necessary part of the triple helical structure. Type I collagen (95 kDa) is found in bone, cornea, skin and tendon. Mutations in the encoding gene are associated with osteogenesis imperfecta, Ehlers Danlos syndrome, 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.

Synonyms:

COL1A1, COL1A2, Alpha-1 type I collagen, Alpha-2 type I collagen