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Collagen I α1 (Cleaved-Ala1218) rabbit pAb

YP-Ab-04378 Catalog No IgG Isotype Reactivity Human; Mouse; Rat WB; ELISA **Applications Gene Name** COL1A1 **Protein Name** Collagen I α1 (Cleaved-Ala1218) **Immunogen** Synthesized peptide derived from human Collagen I α1 (Cleaved-Ala1218) This antibody detects endogenous levels of Human, Mouse, Rat Collagen I at Specificity (Cleaved-Ala1218, protein was cleaved amino acid sequence between 1218-1219) **Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. Polyclonal, Rabbit, IgG Source **Purification** The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen. WB 1:1000-2000 ELISA 1:5000-20000 **Dilution** Concentration 1 mg/ml ≥90% **Purity** Storage Stability -20°C/1 year Synonyms Collagen alpha-1(I) chain (Alpha-1 type I collagen) 135 160kD Observed Band Cell Pathway Secreted, extracellular space, extracellular matrix. Forms the fibrils of tendon, ligaments and bones. In bones the fibrils are Tissue Specificity mineralized with calcium hydroxyapatite. disease:A chromosomal aberration involving COL1A1 is a cause of dermatofibrosarcoma protuberans (DFSP) [MIM:607907]. Translocation t(17;22)(q22;q13) with PDGF. DFSP is an uncommon, locally aggressive, but **Function** rarely metastasizing tumor of the deep dermis and subcutaneous tissue. It typically occurs during early or middle adult life and is most frequently located on the trunk and proximal extremities., disease: Defects in COL1A1 are a cause of Ehlers-Danlos syndrome type 1 (EDS1) [MIM:130000]; also known as Ehlers-Danlos syndrome gravis. EDS is a connective tissue disorder characterized by hyperextensible skin, atrophic cutaneous scars due to tissue fragility and joint hyperlaxity. EDS1 is the severe form of classic Ehlers-Danlos syndrome disease: Defects in COL141 are a cause of estaggnesis imperfects. syndrome., disease: Defects in COL1A1 are a cause of osteogenesis imperfecta

character

type I (OI-I) [MIM:166200]. OI-I is a dominantly inherited serious newborn disease



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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],

Matters needing

Avoid repeated freezing and thawing!

Usage suggestions

attention

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This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images