

Rabbit Anti-COL1A1 [EP236]: RM0285

Intended Use: For Research Use Only

Description: COL1A1 comprises the pro-alpha 1 chains of type I collagen whose triple helix comprises two alpha 1 chains and one alpha 2 chain. Type I collagen is a fibril-forming collagen found in most connective tissues. Mutations in COL1A1 are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIA, Ehlers-Danlos syndrome Classical type, Caffey disease and idiopathic osteoporosis. COL1A1 mutations are also associated with a particular type of skin tumor called dermatofibrosarcoma protuberans, resulting from upregulated expression of the growth factor. A suppressive biological function of COL1A1 in glioma progression has also been reported. The expression of Collagen I is abundant in all tissues including skin and bone. Type I collagen has been used as a marker of osteoblastic differentiation.

Specifications:

Clone: EP236
Source: Rabbit
Isotype: IgG
Reactivity: Human
Localization: Cytoplasm
Formulation: Antibody in PBS pH7.4, containing BSA, glycerol, and $\leq 0.09\%$ sodium azide (NaN₃).
Storage: Store at 2°- 8°C. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles
Applications: IHC
Package:

Description	Catalog No.	Size
COL1A1 Concentrated	RM0285	1 ml

IHC Procedure*:

Positive Control Tissue: Breast cancer, skin
Concentrated Dilution: 50-200
Pretreatment: EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp: 30-60 minutes @ RT
Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.