abcam

Product datasheet

Anti-Collagen I + II + III antibody [NLI/22] ab53925

1 Abreviews

Overview

Product name	Anti-Collagen I + II + III antibody [NLI/22]
Description	Mouse monoclonal [NLI/22] to Collagen I + II + III
Host species	Mouse
Specificity	ab53925 does not react with human collagen types IV, V or VI, human plasma proteins or albumin from various species.
Tested applications	**Suitable for:** ELISA, ICC/IF
Species reactivity	**Reacts with:** Human
Immunogen	Full length native protein (purified) (Human)

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 0.1% mannitol, 0.1M Sodium chloride, 0.01M Sodium phosphate, pH 7.5
Purification notes	ab53925 was purified by Gel Filtration chromatography.
Clonality	Monoclonal
Clone number	NLI/22
Isotype	IgM

Applications

Our Abpromise guarantee covers the use of **ab53925** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		1/500 - 1/2000.
ICC/IF		1/5 - 1/20.

Target

Relevance

Collagen I is a fibrillar collagen found in most connective tissues, and the only component of the collagen found in cartilage. Mutations in this 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. Two transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. Type II collagen is a fibrillar collagen found in cartilage and the vitreous humor of the eye. Collagen type II is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces. Mutations in this gene are associated with achondrogenesis, chondrodysplasia, early onset familial osteoarthritis, SED congenita, Langer Saldino achondrogenesis, Kniest dysplasia, Stickler syndrome type I, and spondyloepimetaphyseal dysplasia Strudwick type. In addition, defects in processing chondrocalcin, a calcium binding protein that is the C propeptide of this collagen molecule, are also associated with chondrodysplasia. There are two transcripts identified for this gene. Collagen III is a fibrillar collagen that is found in extensible connective tissues such as skin, lung, and the vascular system, frequently in association with Collagen I. Mutations in this gene are associated with Ehlers Danlos syndrome type IV, and with aortic and arterial aneurysms. Although alternate transcripts have been detected for this gene, they are the result of mutations; these mutations alter splicing, often leading to the exclusion of multiple exons.

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