

Collagen XI alpha 2 Rabbit pAb

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Catalog # AP52128

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P13942
Reactivity	Human
Predicted	Rat, Pig, Mouse, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	171791
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Collagen XI alpha 2
Epitope Specificity	1631-1736/1736
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted. extracellular space. extracellular matrix.
DISEASE	Defects in COL11A2 are the cause of Stickler syndrome type 3 (STL3) [MIM:184840]. STL3 is an autosomal dominant non-ocular form of Stickler syndrome. Classical Stickler syndrome associates ocular signs with more or less complete forms of Pierre Robin sequence, bone disorders and sensorineural deafness. Ocular symptoms are absent in STL3. Robin sequence includes an opening in the roof of the mouth (a cleft palate), a large tongue (macroglossia), and a small lower jaw (micrognathia). Bones are affected by slight platyspondylitis and large, often defective epiphyses. Juvenile joint laxity is followed by early signs of arthrosis. The degree of hearing loss varies among affected individuals and may become more severe over time. Syndrome expressivity is variable. Defects in COL11A2 are the cause of autosomal recessive otospondylomegaepiphyseal dysplasia (OSMED) [MIM:215150]. OSMED is a skeletal dysplasia accompanied by severe hearing loss. The phenotype overlaps that of autosomal dominant skeletal disorders (Stickler and Marshall syndromes) but can be distinguished by disproportionately short limbs and lack of ocular involvement. Defects in COL11A2 are the cause of Weissenbacher-Zweymueller syndrome (WZS) [MIM:277610]. WZS is an autosomal dominant disorder allelic with STL3 and OSMED. WZS is also referred to as heterozygous OSMED. Defects in COL11A2 are the cause of deafness autosomal dominant type 13 (DFNA13) [MIM:601868]. DFNA13 is a form of sensorineural hearing loss. Sensorineural deafness results from damage to the neural receptors of the inner ear, the nerve pathways to the brain, or the area of the brain that receives sound information. Defects in COL11A2 are the cause of deafness autosomal recessive type 53 (DFNB53) [MIM:609706].
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	May play an important role in fibrillogenesis by controlling lateral growth of collagen II fibrils.

Additional Information

Gene ID	1302
Other Names	Collagen alpha-2(XI) chain, COL11A2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	COL11A2
Function	May play an important role in fibrillogenesis by controlling lateral growth of collagen II fibrils.
Cellular Location	Secreted, extracellular space, extracellular matrix {ECO:0000255 PROSITE-ProRule:PRU00793}

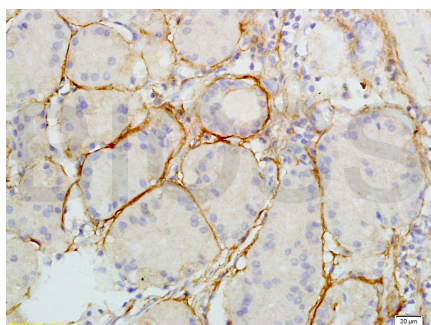
Background

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References

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Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Lui V.C.,et al.Genomics 32:401-412(1996).
Zhidkova N.I.,et al.FEBS Lett. 326:25-28(1993).

Images



Tissue/cell: human esophageal cancer; 4%
Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling
bathing for 15min; Block endogenous peroxidase by 3%
Hydrogen peroxide for 30min; Blocking buffer (normal
goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-Collagen XI alpha 2 Polyclonal Antibody,
Unconjugated(AP52128) 1:200, overnight at 4°C, followed
by conjugation to the secondary antibody(SP-0023) and
DAB(C-0010) staining

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.