Collagen Alpha-2 (COL4A2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Collagen alpha-2 (COL4A2), Polyclonal Antibody
Full Product Name	Rabbit anti-human Collagen alpha-2(IV) chain polyclonal Antibody, Biotin conjugated
Product Gene Name	anti-COL4A2 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Purity/Purification	Caprylic Acid Ammonium Sulfate Precipitation Purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery aliquot and store at -20 degree C or -80 degree C. Avoid repeated freeze.
Matching Pairs	Unconjugated Antibody: COL4A2 (MBS719715) Biotin Conjugated Antibody: COL4A2 (MBS719846)
Molecular Weight	167,553 Da
OMIM	120090
3D Structure	ModBase 3D Structure for P08572
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Conjugate	Biotin
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-70244 / sc-70246 / sc-70243 / sc-135231
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-COL4A2 antibody	ELISA (EIA)
Related Product Information for anti-COL4A2 antibody	MBS719846 is an antibody targeting COL4A2. Also known as Rabbit anti-human Collagen alpha-2(IV) chain polyclonal Antibody, Biotin conjugated. Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-COL4A2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for COL4A2. It may not necessarily be applicable to this product.

NCBI GI #	116256354
NCBI GeneID	1284
NCBI Accession #	NP_001837.2
UniProt Primary Accession #	P08572
UniProt Secondary Accession #	Q14052; Q548C3; Q5VZA9; Q66K23

UniProt Related Accession #	P08572
GenBank Nucleotide #	NM_001846.2
NCBI Official Full Name	collagen alpha-2(IV) chain preproprotein
NCBI Official Synonym Full Names	collagen type IV alpha 2
NCBI Official Symbol	COL4A2
NCBI Official Synonym Symbols	ICH; POREN2
UniProt Protein Name	Collagen alpha-2(IV) chain
Protein Family	Collagen
UniProt Gene Name	COL4A2
UniProt Entry Name	CO4A2_HUMAN
NCBI Protein Information	collagen alpha-2(IV) chain
NCBI Summary for COL4A2	This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. The C-terminal portion of the protein, known as canstatin, is an inhibitor of angiogenesis and tumor growth. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene so that each gene pair shares a common promoter. [provided by RefSeq, Jul 2008]
UniProt Comments for COL4A2	COL4A2: Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a 'chicken-wire' meshwork together with laminins, proteoglycans and entactin/nidogen. Defects in COL4A2 are the cause of porencephaly type 2 (POREN2). POREN2 is a neurologic disorder characterized by a fluid-filled cysts or cavities within the cerebral hemispheres. Affected individuals typically have hemiplegia, seizures, and intellectual disability. Porencephaly type 2, or schizencephalic porencephaly, is usually symmetric and represents a primary defect in the development of the cerebral ventricles. Defects in COL4A2 are a cause of susceptibility to intracerebral hemorrhage (ICH). ICH is a pathological condition characterized by bleeding into one or both cerebral hemispheres including the basal ganglia and the cerebral cortex. It is often associated with hypertension and craniocerebral trauma. Intracerebral bleeding is a common cause of stroke. Belongs to the type IV collagen family. Protein type: Secreted; Extracellular matrix; Secreted, signal peptide Chromosomal Location of Human Ortholog: 13q34 Cellular Component: collagen type IV; endoplasmic reticulum lumen; extracellular matrix; extracellular region; intracellular membrane-bound organelle Molecular Function: extracellular matrix structural constituent; protein binding Biological Process: angiogenesis; axon guidance; collagen catabolic process; extracellular matrix disassembly; extracellular matrix organization and biogenesis; negative regulation of angiogenesis; receptor-mediated endocytosis; transcription, DNA-dependent Disease: Hemorrhage, Intracerebral, Susceptibility To; Porencephaly 2
Research Articles on COL4A2	**1.** analysis of the unique AAB composition and chain register for a heterotrimeric type IV collagen model peptide COL4a1/COL4a2 containing a natural interruption site
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