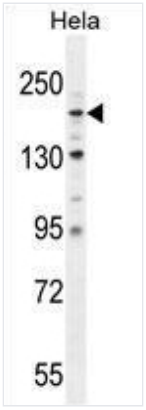
COL4A2 Antibody – Rabbit Polyclonal

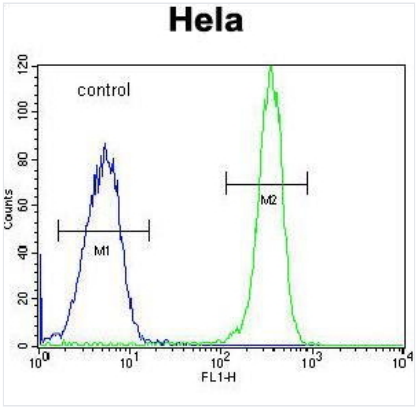
PRODUCT OVERVIEW

Product Name	COL4A2, Polyclonal Antibody
Full Product Name	COL4A2, NT (COL4A2, Collagen alpha-2(IV) chain, Canstatin) (APC)
Product Gene Name	anti-COL4A2 antibody
Product Synonym Names	COL4A2; Collagen alpha-2(IV) chain; Canstatin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human COL4A2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	167,553 Da
Chromosome Location	Chromosome: 13; NC_000013.10 (110959631..111165374). Location: 13q34
OMIM	120090
3D Structure	ModBase 3D Structure for P08572
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 156-186 in the N-terminal region of human COL4A2, UniProt Accession #P08572
Conjugate	APC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-COL4A2 antibody	Antibodies; Collagen
Applications Tested/Suitable for anti-COL4A2 antibody	Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-COL4A2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-COL4A2 antibody	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.
Product References and Citations for anti-COL4A2 antibody	1. Bianchini, G., et al. J. Clin. Oncol. 28(28):4316-4323(2010). 2. Romero, R., et al. Am. J. Obstet. Gynecol. 203 (4), 361 (2010). 3. Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). 4. Romero, R., et al. Am. J. Obstet. Gynecol. 202 (5), 431 (2010). 5. Joslyn, G., et al. Alcohol. Clin. Exp. Res. 34(5):800-812(2010).

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.
Searchable Terms for COL4A2 purchase	MBS6287681 is an antibody targeting COL4A2. Also known as COL4A2, NT (COL4A2, Collagen alpha-2(IV) chain, Canstatin) (APC). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-COL4A2 antibody
Western Blot analysis in Hela cell line lysates (35ug/lane) usingMBS6010832. This demonstrates that MBS6010832 detected the COL4A2 protein (arrow).



Flow Cytometry (FC/FACS) of anti-COL4A2 antibody
Flow Cytometric analysis of Hela cells using MBS6010832 (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

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; collagen alpha-2(IV) chain; canstatin

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: extracellular matrix; intracellular membrane-bound organelle; endoplasmic reticulum lumen; collagen type IV; extracellular region Molecular Function: protein binding; extracellular matrix structural constituent Biological Process: axon guidance; collagen catabolic process; extracellular matrix disassembly; receptor-mediated endocytosis; negative regulation of angiogenesis; extracellular matrix organization and biogenesis; transcription, DNA-dependent; angiogenesis Disease: Porencephaly 2; Hemorrhage, Intracerebral, Susceptibility To
Research Articles on COL4A2	**1.** dominant COL4A2 mutations are a novel major risk factor for familial cerebrovascular disease, including porencephaly and small-vessel disease with reduced penetrance and variable phenotype, which might also be modified by other contributing factors.
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