

MaxPab®

COL4A3 purified MaxPab mouse polyclonal antibody (B01P)

Catalog # H00001285-B01P

Size 500 ug

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human COL4A3 protein.
Immunogen	COL4A3 (AA156139.1, 1 a.a. ~ 1670 a.a) full-length human protein.
Sequence	MSARTAPRPQVLLLPLLLVLLAAAPAASKGCVCKDKGQCFCDGAKGEKGEKGFPGPPGSPGQ KGFTGPEGLPGPQGPKGFPGLPGLTGSKGVRGISGLPGFSGSPGLPGTPGNTGPYGLVGVPGC SGSKGEQGFPLPGLTGYPGIPGAAGLKGQKGAPAKEEDIELDAKGDPGLPGAPGPQGLPGPP GFPGPVGPPGPPGFFGFPGAMGPRGPKGHMGERVIGHKGERGVKGLTGPPGPPGTVMVTLTGP DNRTDLKGEKGDKGAMGEPGPPGPSGLPGESYGSEKGAPGDPGLQGKPGKDGVPGFPGSEG VKGNRGFPGLMGEDGKQKGDIGPPGFRGPTTEYYDYQEKGDEGTPGPPGPRGARGPQGPPSG PPGVPGSPGSSRPGLRGAPGWPLKSGSKGERGRPGKDAMGTPGSPGCAGSPGLPGSPGPPG PPGDMFRKGPPGDHGLPGYLGSPGIPGVDGPKGEPGLLCTQCPYIPGPPGLPGLHGVKGIP GRQGAAGLKGSPGSPGNTGLPGFPGFPGAQGDPLKGEKGETLQPEGQVGVPGDPGLRGQP GRKGLDGIPGTPGVKGLPGPKGELALSSEKGDQPPGDPGSPGSPGAPAGPPGYGPQGEP GLQGTQGVPGAPGPPGEAGPRGELSVPVPGPPGPPGPPGHPGPQGPPGIPGSLGKCGDPG LPGPDGEPGIPGIGFPGPPGPKGDQGFPGTKGSLGCPGKMGEPLPGKPLPGAKGEPVAVAMP GGPGTPGFPGERGNSEHGEIGLPLPLPGTPGNEGLDGPGRDPPGQPPGEQGPGRGIEG PRGAQGLPLNGLKGQQGRRGKTGPKGDPGIPGLDRSGFPGETGSPGIPGHQGEMGPLGQRGY PGNPGILGPPGEDGVIGMMGFPGAIGPPGPPGNPGTPGQRGSPGIPGVKGQRGTPGAKGEQGD KGNPGPSEISHVIGDKGEPGLKGFAGNPGEKGNRGVPGMPGLKGLKGLPGAPPPGPRGDLGS TGNPGEPGLRGIPGSMGNMGMPGSKGKRGTLPGRAGRPLPGIHLQGDKEGPGYSEGTRP GPPGPTGDPGLPGDMGKKGEMGQPPGHLGPAGPEGAPGSPGSPGLPGKPGPHGDLGFKGI KGLLGPPGIRGPPGLPGFPGSPGPMGIRGDQGRDGIPGPAGEKGETGLLRAPPGRGNPGAQG AKGDRGAPGFPLPGRKGAMGDAGPRGPTGIEGFPGPPGLPGAIIPGQTGNRGPPGSRGSPGA PGPPGPPGSHVIGIKGDKGSMGHPGPKGPPGTAGDMGPPGRLGAPGTPGLPGPRGDPGFQGF PGVKGEKGNPGFLGSIGPPGPIGPKGPPGVRGDPGTLKIISLPGSPGPPGTPGEPGMQGEPPG GPPGNLGPCGPRGKPGKDGKPGTPGPAGEKGNKGSKEGPGPAGSDGLPLGKGRGDSGSPA TWTRGFVFTRHSQTTAIPSCPEGTVPLYSGFSLFVQGNQRAHGQDLGTLGSCLQRFTTMPFLF CNVNDVCNFASRNDYSYWLSTPALMPMNMAPITGRALEPYISRCTVCEGPAIAVHSQTTDIPPC PHGWISLWKGFSSIFMFTSAGSEGTQALASPGSCLEEFRAFPFLECHGRGTCNYSNSYSFWLA SLNPERMFRKPIPVKAGELEKIIISRCQVCMKKRH
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (79); Rat (77)

Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

[Protocol Download](#)

Gene Info — COL4A3

Entrez GeneID	1285
GeneBank Accession#	BC156138.1
Protein Accession#	AAI56139.1
Gene Name	COL4A3
Gene Alias	-
Gene Description	collagen, type IV, alpha 3 (Goodpasture antigen)
Omim ID	120070 141200 203780
Gene Ontology	Hyperlink

Gene Summary	Type IV collagen, the major structural component of basement membranes, is a multimeric protein composed of 3 alpha subunits. These subunits are encoded by 6 different genes, alpha 1 through alpha 6, each of which can form a triple helix structure with 2 other subunits to form type IV collagen. This gene encodes alpha 3. In the Goodpasture syndrome, autoantibodies bind to the collagen molecules in the basement membranes of alveoli and glomeruli. The epitopes that elicit these autoantibodies are localized largely to the non-collagenous C-terminal domain of the protein. A specific kinase phosphorylates amino acids in this same C-terminal region and the expression of this kinase is upregulated during pathogenesis. There are multiple alternate transcripts that appear to be unique to this human alpha 3 gene and alternate splicing is restricted to the six exons that encode this C-terminal domain. This gene is also linked to an autosomal recessive form of Alport syndrome. The mutations contributing to this syndrome are also located within the exons that encode this C-terminal region. 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. Some exons of this gene are interspersed with exons of an uncharacterized gene which is on the opposite strand. [provided by RefSeq]
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Other Designations

Goodpasture antigen|OTTHUMP00000195044|alpha 3 type IV collagen|alpha3 type IV collagen|collagen IV, alpha-3 polypeptide|tumstatin

Disease

- [Anti-Glomerular Basement Membrane Disease](#)
- [Chorioamnionitis](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Fetal Membranes](#)
- [Genetic Predisposition to Disease](#)
- [Hematuria](#)
- [Keratoconus](#)
- [Nephritis](#)
- [Obstetric Labor](#)
- [Pre-Eclampsia](#)
- [Premature Birth](#)
- [Proteinuria](#)
- [Pulmonary Disease](#)