10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

COL4A6 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant COL4A6.
Catalog # AT1583a

Product Information

Application	E
Primary Accession	Q14031
Other Accession	BC005305
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1G11
Calculated MW	163807

Additional Information

Gene ID	1288
Other Names	Collagen alpha-6(IV) chain, COL4A6
Target/Specificity	COL4A6 (AAH05305, 1 a.a. ~ 73 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	COL4A6 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

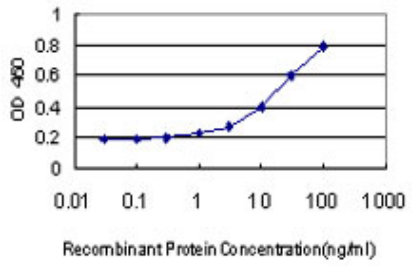
This gene encodes one of the six subunits of type IV collagen, the major structural component of basement membranes. Like the other members of the type IV collagen gene family, this gene is organized in a head-to-head conformation with another type IV collagen gene, alpha 5 type IV collagen, so that the gene pair shares a common promoter. Deletions in the alpha 5 gene that extend into the alpha 6 gene result in diffuse leiomyomatosis accompanying the X-linked Alport syndrome caused by the deletion in the alpha 5 gene. Two splice variants have been identified for this gene.

References

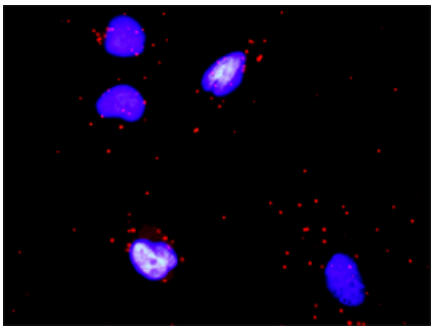
A genetic association study of maternal and fetal candidate genes that predispose to preterm prelabor

rupture of membranes (PROM). Romero R, et al. Am J Obstet Gynecol, 2010 Jul 29. PMID 20673868.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.Identification of fetal and maternal single nucleotide polymorphisms in candidate genes that predispose to spontaneous preterm labor with intact membranes. Romero R, et al. Am J Obstet Gynecol, 2010 May. PMID 20452482.Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121.Collagen mRNA levels changes during colorectal cancer carcinogenesis. Skovbjerg H, et al. BMC Cancer, 2009 May 7. PMID 19422682.

Images



Detection limit for recombinant GST tagged COL4A6 is approximately 1ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between OSM and COL4A6. HeLa cells were stained with anti-OSM rabbit purified polyclonal 1:1200 and anti-COL4A6 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

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