

Product datasheet for **CF812064**

Collagen VI (COL6A1) Mouse Monoclonal Antibody [Clone ID: OTI1G8]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1G8
Applications:	WB
Recommended Dilution:	WB 1:500
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 752-835 of human COL6A1 (NP_001839) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	108.53 kDa
Gene Name:	collagen type VI alpha 1 chain
Database Link:	NP_001839 Entrez Gene 12833 Mouse Entrez Gene 294337 Rat Entrez Gene 1291 Human P12109


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Background:

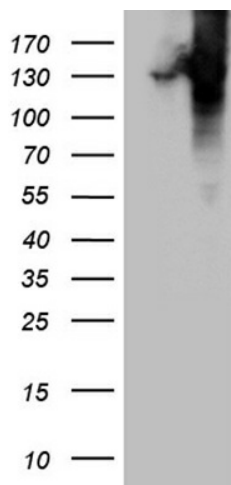
The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy. [provided by RefSeq, Jul 2008]

Synonyms:

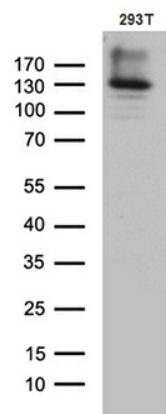
BTHLM1; OPLL; UCHMD1

Protein Pathways:

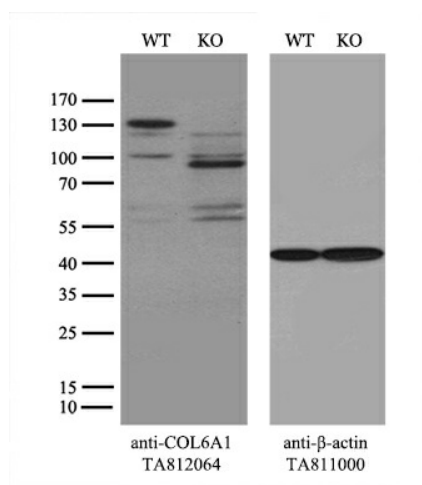
ECM-receptor interaction, Focal adhesion

Product images:


HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY COL6A1 (Cat# [RC208562], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-COL6A1 antibody (Cat# [TA812064]). Positive lysates [LY419706] (100ug) and [LC419706] (20ug) can be purchased separately from OriGene.



Western blot analysis of extracts (35ug) from 293T cell line by using anti-COL6A1 monoclonal antibody (1:500).



Equivalent amounts of cell lysates (10 ug per lane) of wild-type 293T cells (WT, Cat# LC810293T) and COL6A1-Knockout 293T cells (KO, Cat# [LC810050]) were separated by SDS-PAGE and immunoblotted with anti-COL6A1 monoclonal antibody [TA812064], (1:500). Then the blotted membrane was stripped and reprobed with anti-β-actin antibody ([TA811000]) as a loading control.