

For Research Use Only

# COL6A3 Recombinant antibody

Catalog Number: 83010-1-RR



## Basic Information

<b>Catalog Number:</b> 83010-1-RR	<b>GenBank Accession Number:</b> NM_004369	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 1293	<b>CloneNo.:</b> 230540A11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P12111	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> collagen, type VI, alpha 3	
<b>Immunogen Catalog Number:</b> AG34752	<b>Calculated MW:</b> 344 kDa	
	<b>Observed MW:</b> 300 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : A375 cells,
<b>Species Specificity:</b> human	

## Background Information

COL6A3 belongs to the type VI collagen family. Collagen VI acts as a cell-binding protein. It is expected to be expressed in smooth muscle. And the calculated molecular weight of COL6A3 is 343 kDa. The protein has similar expression in obese and T2DM (2 patients, and it regulates the chemotaxis and inflammation of macrophages in adipose tissue. Its expression is also related to weight gain. The expression of this protein in adipocytes is related to insulin resistance, which is believed to depend on PPAR (peroxisome proliferator-activated receptor)  $\alpha$ -mediated adipocyte development (PMID: 25337653). Defects in COL6A3 are a cause of Bethlem myopathy (BM). Defects in COL6A3 are a cause of Ullrich congenital muscular dystrophy (UCMD) which also known as Ullrich scleroatonic muscular dystrophy. This antibody is specific to COL6A3.

## Storage

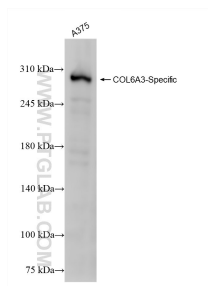
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

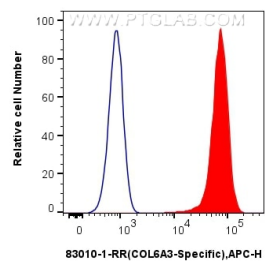
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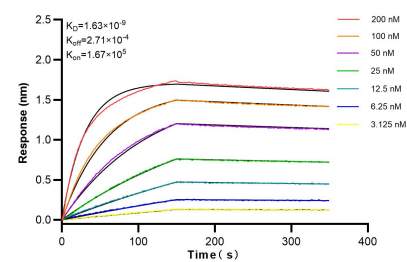
## Selected Validation Data



A375 cells were subjected to SDS PAGE followed by western blot with 83010-1-RR (COL6A3-Specific antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug COL6A3-Specific Recombinant antibody (83010-1-RR, Clone:230540A11) and APC-Conjugated Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83010-1-RR against Human COL6A3-Specific were performed. The affinity constant is 1.63 nM.