

For Research Use Only

COL6A3-Specific Recombinant antibody

Catalog Number:83010-3-RR



Basic Information

Catalog Number: 83010-3-RR	GenBank Accession Number: NM_004369	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1293	CloneNo.: 230540D3
Source: Rabbit	UNIPROT ID: P12111	
Isotype: IgG	Full Name: collagen, type VI, alpha 3	
Immunogen Catalog Number: AG34752	Calculated MW: 344 kDa	
	Observed MW: 343 kDa	

Applications

Tested Applications:
FC (Intra), ELISA

Species Specificity:
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) α -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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

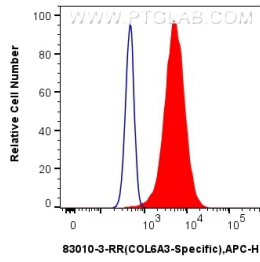
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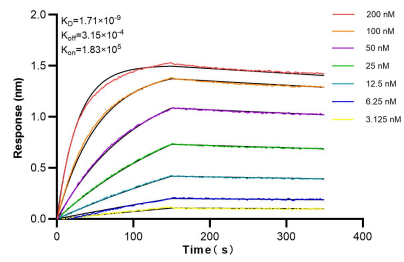
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Selected Validation Data



1×10^6 HeLa cells were intracellularly stained with 0.25 μg Col6a3-Specific Recombinant Antibody (83010-3-RR, Clone:230540D3) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 μg Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Biolayer interferometry (BLI) kinetic assays of 83010-3-RR against Human COL6A3-Specific were performed. The affinity constant is 1.71 nM.