

## Datasheet for ABIN7608123

# anti-CD5L antibody (Biotin)



## oo to . . oudot pago

Overview		
Quantity:	10 μg	
Target:	CD5L	
Reactivity:	Human	
Host:	Human, Rabbit	
Clonality:	Chimeric	
Conjugate:	This CD5L antibody is conjugated to Biotin	
Application:	Flow Cytometry (FACS)	
Product Details		
Purpose:	Biotinylated Anti-CD5L antibody(DMC441), IgG1 Chimeric mAb	
Clone:	DMC441	
Isotype:	IgG1	
Isotype: Purification:	lgG1 Purified from cell culture supernatant by affinity chromatography	
Purification:		
Purification: Target Details	Purified from cell culture supernatant by affinity chromatography	

Following incorporation into mature adipocytes via CD36-mediated endocytosis, associates

with cytosolic FASN, inhibiting fatty acid synthase activity and leading to lipolysis, the degradation of triacylglycerols into glycerol and free fatty acids (FFA). CD5L-induced lipolysis occurs with progression of obesity: participates in obesity-associated inflammation following recruitment of inflammatory macrophages into adipose tissues, a cause of insulin resistance and obesity-related metabolic disease. Regulation of intracellular lipids mediated by CD5L has a direct effect on transcription regulation mediated by nuclear receptors ROR-gamma (RORC). Acts as a key regulator of metabolic switch in T-helper Th17 cells. Regulates the expression of pro-inflammatory genes in Th17 cells by altering the lipid content and limiting synthesis of cholesterol ligand of RORC, the master transcription factor of Th17-cell differentiation. CD5L is mainly present in non-pathogenic Th17 cells, where it decreases the content of polyunsaturated fatty acyls (PUFA), affecting two metabolic proteins MSMO1 and CYP51A1, which synthesize ligands of RORC, limiting RORC activity and expression of pro-inflammatory genes. Participates in obesity-associated autoimmunity via its association with IgM, interfering with the binding of IgM to Fcalpha:mu receptor and enhancing the development of long-lived plasma cells that produce high-affinity IgG autoantibodies (By similarity). Also acts as an inhibitor of apoptosis in macrophages: promotes macrophage survival from the apoptotic effects of oxidized lipids in case of atherosclerosis (PubMed:24295828). Involved in early response to microbial infection against various pathogens by acting as a pattern recognition receptor and by promoting autophagy (PubMed:16030018, PubMed:24223991, PubMed:24583716, PubMed:25713983).

UniProt:

043866

### **Application Details**

Application Notes: Flow Cyt 1:100

Restrictions: For Research Use only

### Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  Lyophilized proteins are shipped at ambient temperature.

ш	Jand	lina
г	land	1111()
•	10110	9

Expiry Date:

12 months