Cat. No. DMC100441P



## **PRODUCT INFORMATION**

Clone ID DMC441
Target CD5L

Synonyms AIM; API6; CT-2; hAIM; PRO229; SP-ALPHA;

Spalpha

**Host Species** Rabbit

**Description** PE-conjugated Anti-CD5L antibody(DMC441); lgG1

Chimeric mAb

**Delivery** 3-4 weeks **Uniprot ID** 043866

**IgG type** Rabbit/Human Fc chimeric IgG1

Clonality Monoclonal
Reactivity Human
Applications Flow Cyt

**Recommended Dilutions**Flow Cyt 1:100

**Purification** Purified from cell culture supernatant by affinity

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chromatography

Formulation & Reconstitution Liquid PBS with 0.05% Proclin300, 1% BSA

Storage & Shipping Store at 2°C-8°C for 6 months



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Secreted protein that acts as a key regulator of lipid synthesis: mainly expressed by macrophages in lymphoid and inflamed tissues and regulates mechanisms in inflammatory responses; such as infection or atherosclerosis. Able to inhibit lipid droplet size in adipocytes.
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 obesityassociated 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 the content of the content is the content of the content 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

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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).

**Background** 

Usage Research use only Conjugate PE-conjugated



