RD SYSTEMS a biotechne brand

Monoclonal Mouse IgG₁ Clone # 1004266 Catalog Number: MAB93252

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human ADAM28 in direct ELISAs.
Source	Monoclonal Mouse IgG ₁ Clone # 1004266
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese Hamster Ovary cell line, CHO-derived human ADAM28 Leu72 & Leu191-Ala623, Accession # Q0UKQ2
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

APPLICATIONS

 Recommended Concentration
 Sample

 Flow Cytometry
 0.25 µg/10⁶ cells
 See Below

CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere
	with conjugation.

DATA

Flow	Cyto	ometry	
ADAM28		<u>18</u>	
	0	20 ⁴	0 ⁵
Mouse IgG	•	20 ⁴ 2019	

Detection of ADAM28 in Human PBMC by Flow Cytometry. Human PBMC were stained with (A) Mouse Anti-Human ADAM28 Monoclonal Antibody (Catalog # MAB93252) or (B) Mouse IgG1 Isotype Control (Catalog # MAB002) followed by PE-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0102B) and Mouse Anti-Human CD19 APC-conjugated Monoclonal Antibody (Catalog # FAB4867A). View our protocol for Staining Membrane-associated Proteins.

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PREPARATION AND S	STORAGE		
Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.		
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C		
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 		

• 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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Human ADAM28 Antibody

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BACKGROUND

A distintegrin and metalloprotease domain-containing protein 28 (ADAM28), also known as MDC-L, is a member of the M12B peptidase family of enzymes. It is synthesized as an approximately 80-90 kDa glycosylated proprotein that is processed to a mature form later in the secretory pathway (1-3). After the removal of the propeptide that contains a cysteine switch motif, the activated form of ADAM28 consists of a 467 aa extracellular domain (ECD) which contains a peptidase, disintegrin, cysteine-rich and EGF-like domains, followed by a 21 aa transmembrane segment and an 89 aa cytoplasmic domain (3). Alternative splicing generates additional isoforms with a variety of substitutions and deletions in the cysteine-rich and EGF-like domains (1). Within the ECD, human ADAM28 shares 73% aa sequence identity with mouse and rat ADAM28 (3). ADAM28 is a cell surface protein that is involved in a variety of cell-cell and cell-matrix interactions, including fertilization, muscle development, and neurogenesis (4-6), and exhibits catalytic activity to insulin-like growth factor binding protein-3 (7). Like many members of the ADAM28 interacts with integrin to influence cell adhesion and cell-cell interaction (8). ADAM28 can mediate the adhesion of the Jurkat cells, T-lymphoma cell line, through integrin $\alpha 4\beta 1(9)$. R&D Systems in-house testing also indicates that ADAM28 cleaves IGFBP-3.

References:

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