# antibodies - online.com







## anti-Catalase antibody (AA 23-226)





#### Overview

Overview	
Quantity:	100 μg
Target:	Catalase (CAT)
Binding Specificity:	AA 23-226
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Application:	ELISA, Immunoprecipitation (IP), Immunofluorescence (IF), Flow Cytometry (FACS)
Product Details	
Immunogen:	Recombinant human CS1 (Ser23-Met226) (ABIN6961075) produced by using human HEK293 cells
Clone:	DM9
Isotype:	IgG
Purification:	Purified from cell culture supernatant by affinity chromatography
Target Details	
Target:	Catalase (CAT)
Alternative Name:	CS1 (CAT Products)
Background:	Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating the activation and differentiation of a wide variety of immune cells and thus are involved in the regulation and

interconnection of both innate and adaptive immune response. Activities are controlled by presence or absence of small cytoplasmic adapter proteins, SH2D1A/SAP and/or SH2D1B/EAT-2. Isoform 1 mediates NK cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway (PubMed:11698418). Positively regulates NK cell functions by a mechanism dependent on phosphorylated SH2D1B. Downstream signaling implicates PLCG1, PLCG2 and PI3K (PubMed:16339536). In addition to heterotypic NK cells-target cells interactions also homotypic interactions between NK cells may contribute to activation. However, in the absence of SH2D1B, inhibits NK cell function. Acts also inhibitory in T-cells (By similarity). May play a role in lymphocyte adhesion (PubMed:11802771). In LPS-activated monocytes negatively regulates production of proinflammatory cytokines (PubMed:23695528).

 Molecular Weight:
 37 kDa

 Gene ID:
 57823

 UniProt:
 Q9NQ25

Pathways: Cellular Glucan Metabolic Process, Cell RedoxHomeostasis, Photoperiodism

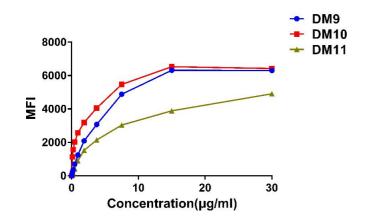
### **Application Details**

Application Notes: Flow Cyt 1/100

Restrictions: For Research Use only

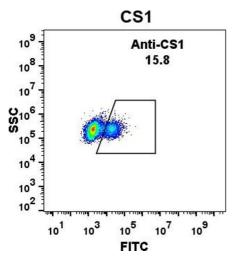
#### Handling

Format:	Lyophilized
Buffer:	50 % Glycerol, PBS, pH 7.4, 0.1 % BSA, 0.1 % Procline 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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.
Expiry Date:	12 months



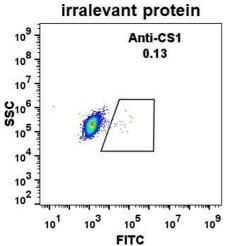
#### **Affinity Measurement**

**Image 1.** Affinity ranking of different Rabbit anti-CS1 mAb clones by titration of different concentration onto Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.



#### **Flow Cytometry**

**Image 2.** Expi 293 cell line transfected with human CS1 were surface stained with Rabbit anti-CS1monoclonal antibody 1 μg/mL (clone: DM9) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.



#### **Flow Cytometry**

Image 3. Expi 293 cell line transfected with irrelevant protein were surface stained with Rabbit anti-CS1monoclonal antibody 1 μg/mL (clone: DM9) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN6961050.