Datasheet for ABIN6961050

anti-Catalase antibody (AA 23-226)

3 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Catalase (CAT)
Binding Specificity:	AA 23-226
Reactivity:	Human
Host:	Rabbit
Clonality:	Monoclonal
Conjugate:	This Catalase antibody is un-conjugated
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

Target Details

	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

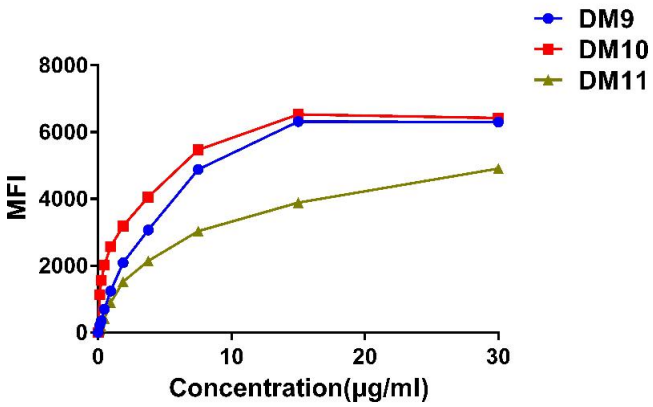
Handling

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).

Handling

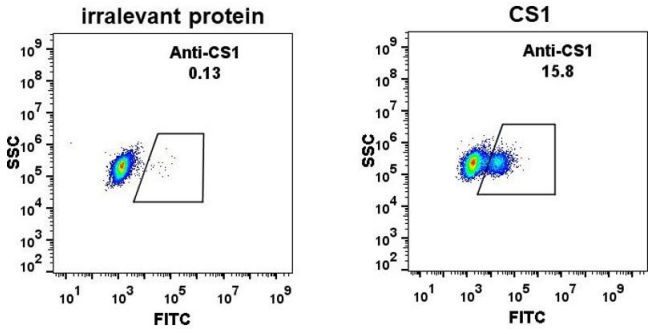
	Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months

Images



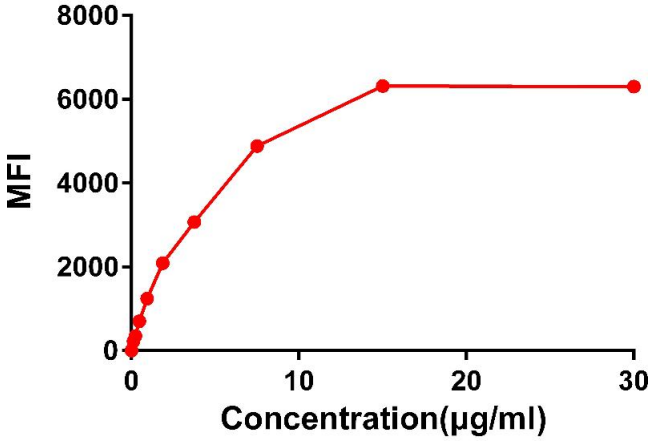
Titration

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 irrelevant protein (left) and human CS1 (right) 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. Flow cytometry data of serially titrated Rabbit anti-CS1 monoclonal antibody (clone: DM9) on Raji cells. The Y-axis represents the mean fluorescence intensity (MFI) while the X-axis represents the concentration of IgG used.