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Datasheet for ABIN7092847
Catalase Protein (CAT) (Fc Tag)

Overview

Quantity:	100 µg
Target:	Catalase (CAT)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Catalase protein is labelled with Fc Tag.

Product Details

Purpose:	Recombinant mouse CS1 protein with C-terminal human Fc tag
Specificity:	Mouse CS1 (Ser23-Gly224) hFc (Glu99-Ala330)
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	Catalase (CAT)
Alternative Name:	CS1 (CAT Products)
Background:	Synonymes: 19A,19A24,4930560D03Rik,CRACC,CS1 Description: Self-ligand receptor of the signaling lymphocytic activation molecule (SLAM) family. SLAM receptors triggered by homo- or heterotypic cell-cell interactions are modulating

Target Details

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 (PubMed:19648922). Mediates natural killer (NK) cell activation through a SH2D1A-independent extracellular signal-regulated ERK-mediated pathway (By similarity). Positively regulates NK cell functions by a mechanism dependent on the adapter SH2D1B. 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 (PubMed:19151721). May play a role in lymphocyte adhesion (By similarity). In LPS-activated monocytes negatively regulates production of proinflammatory cytokines (By similarity).[UniProtKB/Swiss-Prot Function]

Molecular Weight: predicted molecular mass of 48.4 kDa after removal of the signal peptide.The apparent molecular mass of mCS1-hFc is 55-70 kDa due to glycosylation.

UniProt: [Q8BHK6](#)

Pathways: [Cellular Glucan Metabolic Process](#), [Cell RedoxHomeostasis](#), [Photoperiodism](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstitute with deionized water

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.

Expiry Date: 12 months