

CD43 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P75404
Synonyms:	Leukosialin; Ly-48; Sialophorin; CD43; CD43ct; SPN
Species:	Mouse
Source:	HEK293
Accession:	P15702 (D20-G248)
Gene ID:	20737
Molecular Weight:	72-120 kDa

PROPERTIES

AA Sequence	<p> D S L Q R T T M L P S T P H I T A P S T S E A Q N A S P S V S V G S G T V D S K E T I S P W G Q T T I P V S L T P L E T T E L S S L E T S A G A S M S T P V P E P T A S Q E V S S K T S A L L P E P S N V A S D P P V T A A N P V T D G P A A N P V T D G T A A S T S I S K G T S A P P T T V T T S S N E T S G P S V A T T V S S K T S G P P V T T A T G S L G P S S E M H G L P A T T A T S S V E S S S V A R G T S V S S R K T S T T S T Q D P I T T R S P S Q E S S G </p>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>The CD43 protein in mice emerges as the predominant cell surface sialoprotein of leukocytes, wielding a regulatory influence over various T-cell functions crucial to immune responses. CD43 positively regulates T-cell activation, proliferation, differentiation, trafficking, and migration, particularly enhancing T-cell trafficking to lymph nodes through its interaction with ERM proteins (EZR, RDX, and MSN). In addition to negatively regulating Th2 cell differentiation, CD43 steers T-cells towards a Th1 lineage commitment. It plays a pivotal role in inducing the expression of IFN-gamma during T-cell receptor (TCR) activation, affecting both CD4(+) and CD8(+) T-cells, and contributes to T-cell preparation for cytokine</p>
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sensing and differentiation into effector cells by influencing the expression of cytokine receptors IFNGR and IL4R. Serving as a major E-selectin ligand, CD43 facilitates Th17 cell rolling on activated vasculature and subsequent recruitment during inflammation, mediating Th17 cell adhesion to E-selectin. Moreover, CD43 acts as a T-cell counter-receptor for SIGLEC1 and exhibits a protective role by shielding cells from apoptotic signals, thus promoting cell survival.

Caution: Product has not been fully validated for medical applications. For research use only.

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