

CD43 Protein, Human (HEK293, His)

Cat. No.:	HY-P77887
Synonyms:	Leukosialin; CD43; Ly-48; A630014B01Rik; Galgp; GPL115; LSN; Sialophorin; SPN
Species:	Human
Source:	HEK293
Accession:	P16150 (S20-R253)
Gene ID:	6693
Molecular Weight:	50-120 kDa

PROPERTIES

AA Sequence	<pre> S T T A V Q T P T S G E P L V S T S E P L S S K M Y T T S I T S D P K A D S T G D Q T S A L P P S T S I N E G S P L W T S I G A S T G S P L P E P T T Y Q E V S I K M S S V P Q E T P H A T S H P A V P I T A N S L G S H T V T G G T I T T N S P E T S S R T S G A P V T T A A S S L E T S R G T S G P P L T M A T V S L E T S K G T S G P P V T M A T D S L E T S T G T T G P P V T M T T G S L E P S S G A S G P Q V S S V K L S T M M S P T T S T N A S T V P F R N P D E N S R </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
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.
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 stands out as the predominant cell surface sialoprotein of leukocytes, orchestrating a myriad of crucial functions in T-cell regulation. It exerts a positive influence on T-cell activation, proliferation, differentiation, trafficking, and migration, notably facilitating T-cell trafficking to lymph nodes through its association with ERM proteins (EZR, RDX, and MSN). While playing a role in preparing T-cells for cytokine sensing and differentiation into effector cells, CD43 negatively regulates Th2 cell differentiation and steers T-cells toward a Th1 lineage commitment. Additionally, it plays a pivotal role in inducing the expression of IFN-gamma by T-cells during T-cell receptor (TCR) activation, promoting IFNGR and IL4R</p>
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signaling, and mediating the clustering of IFNGR with TCR. Acting as a major E-selectin ligand, CD43 facilitates Th17 cell rolling on activated vasculature and recruitment during inflammation, mediating Th17 cell adhesion to E-selectin. Moreover, CD43 serves as a T-cell counter-receptor for SIGLEC1, contributing to cell survival by protecting cells from apoptotic signals.

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

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