

Recombinant Protein Technical Manual Recombinant Mouse CD69 Protein (His tag, ECD) RPES1805

Product Data:

Product SKU: RPES1805

Species: Mouse

Size: 20µg

Expression host: HEK293 Cells

Uniprot: NP_001028294.1

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Molecular Mass:	17.3 kDa	
AP Molecular Mass:		
Tag:	C-His	
Bio-activity:		
Purity:	> 85 % as determined by SDS-PAGE	
Endotoxin:	< 1.0 EU per μg of the protein as determined by the LAL method.	
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.	
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation:	Lyophilized from sterile PBS, pH 7.4	
Reconstitution:	Please refer to the printed manual for detailed information.	
Application:		
Synonyms:	5830438K24Rik;AI452015;AIM;VEA;CLEC2C	

Immunogen Information:

Sequence: Asn62-Arg199

Background:

Early activation antigen CD69, also known as activation inducer molecule (AIM), is a single-pass type II membrane protein. Recently, cDNA clones encoding human and mouse CD69 were isolated and showed CD69 to be a member of the C-type lectin superfamily. It is one of the earliest cell surface antigens expressed by T cells following activation. Once expressed, CD69 acts as a costimulatory molecule for T cell activation and proliferation. In addition to mature T cells, CD69 is inducibly expressed by immature thymocytes, B cells, natural killer (NK) cells, monocytes, neutrophils and eosinophils, and is constitutively expressed by mature thymocytes and platelets. CD69 is involved in lymphocyte proliferation and functions as a signal transmitting receptor in lymphocytes, natural killer (NK) cells, and platelets. The structure, chromosomal localization, expression and function of CD69 suggest that it is likely a pleiotropic immune regulator , potentially important in the activation and differentiation of a wide variety of hematopoietic cells. This membrane molecule transiently expresses on activated lymphocytes, and its selective expression in inflammatory infiltrates suggests that it plays a role in the pathogenesis of inflammatory diseases. CD69 plays a crucial role in the pathogenesis of allergen-induced eosinophilic airway inflammation and hyperresponsiveness and that CD69 could be a possible therapeutic target for asthmatic patients.