

SLAMF6 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	ANK-T-B-antigen;Ly108;KAL1b;SLAMF6;CD352;NTB-A;SF2000;NK-T-B-antigen;KALI
Protein Construction:	Gln22-Met226
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q96DU3-1
Molecular Weight:	26 kDa (predicted). Due to glycosylation, the protein migrates to 35-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human SLAMF6, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-SLAMF6 Antibody, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

SLAMF6 (signaling lymphocyte activation molecule 6) (Ly108 in mice, NTB-A or SF2000 in humans) is a homophilic receptor belonging to the superfamily immunoglobulin (Ig) domain-containing molecules. It is known to be widely and exclusively expressed on hematopoietic cells. The SLAMF6 intracellular portion is characterized by two ITSMs that act as binding sites for adaptor molecules such as SAP and EAT-2.

Reference

Dragovich MA, et al. SLAMF6 clustering is required to augment T cell activation. PLoS One. 2019 Jun 14;14(6): e0218109. doi: 10.1371/journal.pone.0218109. PMID: 31199820; PMCID: PMC6568412.

Yigit B, et al. SLAMF6 as a Regulator of Exhausted CD8+ T Cells in Cancer. Cancer Immunol Res. 2019 Sep;7(9): 1485-1496. doi: 10.1158/2326-6066.CIR-18-0664. Epub 2019 Jul 17. PMID: 31315913.

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