

# Mouse SLAMF6 / Ly108 Protein (His Tag)

Catalog Number: 50275-M08H



Sino Biological Inc.

Biological Solution Specialist

## General Information

### Gene Name Synonym:

CD352; KALI; KAL1b; Ly108; NTB-A; NTBA; SF2000; KAL1; KAL1b; Ly108; NTB-A; NTBA; SF2000

### Protein Construction:

A DNA sequence encoding the mouse SLAMF6 (NP\_109635.1) extracellular domain (Met 1-Asn 239) was fused with a polyhistidine tag at the C-terminus.

**Source:** Mouse

**Expression Host:** Human Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE

### Bio Activity:

**Measured by its ability to bind biotinylated recombinant human SH2D1A in a functional ELISA.**

### Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Glu 31

### Molecular Mass:

The recombinant mouse SLAMF6 consists of 220 amino acids and has a predicted molecular mass of 24.4 kD. The apparent molecular mass of the rmSLAMF6 protein is approximately 40-45 kDa in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

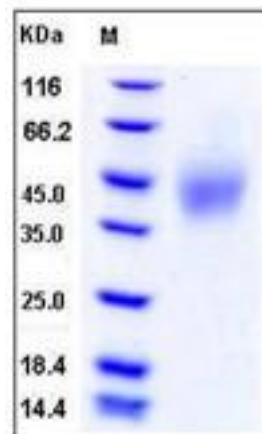
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

SLAM family member 6, also known as Activating NK receptor, NK-T-B-antigen, NTB-A, SLAMF6, KALI and Ly108, is a single-pass type I membrane protein which belongs to the CD2 subfamily of the immunoglobulin superfamily. SLAMF6 / Ly108 contains one Ig-like (immunoglobulin-like) domain. It is expressed by all (resting and activated) natural killer cells (NK), T- and B-lymphocytes. SLAMF6 / Ly108 triggers cytolytic activity only in natural killer cells (NK) expressing high surface densities of natural cytotoxicity receptors. SLAMF6 / Ly108 is a homodimer. It interacts with PTN6 and, upon phosphorylation, with PTN11 and SH2D1A/SAP. SLAMF6 / Ly108 undergoes tyrosine phosphorylation and associates with the Src homology 2 domain-containing protein (SH2D1A) as well as with SH2 domain-containing phosphatases (SHPs). It may function as a coreceptor in the process of NK cell activation. SLAMF6 / Ly108 can also mediate inhibitory signals in NK cells from X-linked lymphoproliferative patients.

## References

- 1.Gray CW. et al., 2000, Eur J Biochem. 267 (18): 5699-710.
- 2.Bottino C. et al., 2001, J Exp Med. 194 (3): 235-46.
- 3.Valdez PA. et al., 2004, J Biol Chem. 279 (18): 18662-9.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

Fax :+86-10-51029969 • Tel:+86-400-890-9989 • <http://www.sinobiological.com>