Leader in Biomolecular Solutions for Life Science

www.abclonal.com

Recombinant Mouse CD8a Protein

Catalog No.: RP01513 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12525	P01731

Tags
C-His

Synonyms
Ly-2; Ly-B; Ly-35; Lyt-2;CD8A

Background

T-cell surface glycoprotein CD8 alpha chain, also known as CD8a, is a single-pass type I membrane protein. The CD8 glycoprotein is expressed by thymocytes, mature T cells and natural killer (NK) cells and has been implicated in the recognition of monomorphic determinants on major histocompatibility complex (MHC) Class I antigens, and in signal transduction during the course of T-cell activation. Both human and rodent CD8 antigens are comprised of two distinct polypeptide chains, alpha and beta. The Ig domains of CD8 alpha are involved in controlling the ability of CD8 to be expressed. Mutation of B- and F-strand cysteine residues in CD8 alpha reduced the ability of the protein to fold properly and, therefore, to be expressed. Defects in CD8A are a cause of familial CD8 deficiency. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
19.71 kDa	25-35 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Basic Information

Description
Recombinant Mouse CD8a Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys28-Tyr196) of mouse CD8 alpha (Accession #NP_001074579.1) fused with a 6×His tag at the C-terminus.

Bio-Activity
Measured by its binding ability in a functional ELISA. Immobilized Mouse CD8A at 2μg/mL (100 μL/well) can bind anti Mouse CD8A antibody with a linear range of 0.001-3.77μg/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

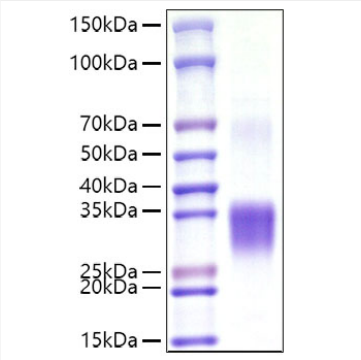
400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

* □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Validation Data



Recombinant Mouse CD8a Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.