10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CD2/SRBC

Catalog # PVGS1893

Specification

CD2/SRBC - Product Information

Primary Accession P06729

Species
Human

Sequence
Lys25-Asp209

Purity
> 95% as determined by Bis-Tris PAGE
 > 95% as determined by HPLC

Endotoxin Level
Less than 1EU per μg by the LAL method.

Biological Activity
Measured by its binding ability in a functional ELISA. Immobilized CD2/SRBC [Biotin], His & Avi, Human at 1 μg/ml (100 μl/well) on the streptavidin precoated plate (5 μg/ml) can bind Human CD58, hFc Tag. Test result was comparable to standard batch.

Expression System
HEK293

Theoretical Molecular Weight
24.15 kDa

Formulation **Lyophilized from a 0.22 μm filtered solution in PBS□(pH 7.4).**

Reconstitution
Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.

Storage & Stability
Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

CD2/SRBC - Additional Information

Gene ID 914

Other Names
T-cell surface antigen CD2, Erythrocyte receptor, LFA-2, LFA-3 receptor, Rosette receptor, T-cell surface antigen T11/Leu-5, CD2, CD2, SRBC

Target Background

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The CD2 family of receptors is evolutionarily conserved and widely expressed on cells within the hematopoietic compartment. In recent years several new members have been identified with important roles in the immune system. CD2 family members regulate natural killer (NK) cell lytic activity and inflammatory cytokine production when engaged by ligands on tumor cells.

CD2/SRBC - Protein Information

Name CD2

Synonyms SRBC

Function
CD2 interacts with lymphocyte function-associated antigen CD58 (LFA-3) and CD48/BCM1 to mediate adhesion between T-cells and other cell types. CD2 is implicated in the triggering of T-cells, the cytoplasmic domain is implicated in the signaling function.

Cellular Location
Cell membrane; Single-pass type I membrane protein

Tissue Location
Expressed in natural killer cells (at protein level).

CD2/SRBC - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CD2/SRBC - Images