Recombinant Rat CD6/TP120 Protein (His Tag)

Catalog Number:PKSR030241

Note: Centrifuge before opening to ensure complete recovery of vial contents.

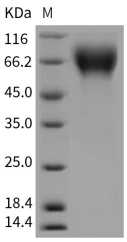
Description

Synonyms	CD6
Species	Rat
Expression Host	HEK293 Cells
Sequence	Met1-Asn396
Accession	Q812A4
Calculated Molecular Weight	42.5 kDa
Observed molecular weight	64-70 kDa
Tag	C-His
Bioactivity	1. Immobilized rat CD6-His at 10 μg/mL (100 μL/well) can bind rat ALCAM-Fc3, The EC50 of rat ALCAM-Fc3 is 19.5-45. 5 ng/ml. 2. Measured by the ability of the immobilized protein to support the adhesion of Jurkat human acute T cell leukemia cells. When 8 x 10^4cells/well are added to rat CD6-His coated plates (10μg/mL, 100 μL/well), approximately 39.2% will adhere after 60 minutes at 37℃.

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ 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 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

T-cell differentiation antigen CD6, also known as TP120 and CD6, is a single-pass type I membrane protein which contains threeSRCR domains. CD6 / TP120 is a cell surface glycoprotein expressed primarily on T cells, it may function

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as a costimulatory molecule and may play a role in autoreactive immune responses. CD6 / TP120 is expressed by thymocytes, mature T-cells, a subset of B-cells known as B-1 cells, and by some cells in the brain. CD6 ligand termed CD166 (previously known as activated leukocyte cell adhesion molecule, ALCAM) has been identified and shown to be expressed on activated T cells, B cells, thymic epithelium, keratinocytes, and in rheumatoid arthritis synovial tissue. CD6 / TP120 binds to activated leukocyte cell adhesion molecule (CD166), and is considered as a costimulatory molecule involved in lymphocyte activation and thymocyte development. CD6 / TP120 partially associates with the TCR / CD3 complex and colocalizes with it at the center of the mature immunological synapse (IS) on T lymphocytes. During thymic development CD6-dependent signals may contribute both to thymocyte survival, and to the overall functional avidity of selection in both man and mouse.

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