

Recombinant Rat CD81 Protein

Cat. No. Cd81-330R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cd81 (NP_037219.1) (Lys116-Lys201) was expressed with two additional amino acids (Gly & Pro) at the N-terminus.
Species	Rat
Source	HEK293
ProteinLength	Lys116-Lys201
Description	CD81, also known as TAPA-1, belongs to the transmembrane 4 superfamily, also known as the tetraspanin family. Members of this family mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. CD81 is a widely expressed cell-surface protein involved in an astonishing variety of biologic responses. It is related to adhesion, morphology, activation, proliferation, and differentiation of B, T, and other cells. On B cells CD81 is part of a complex with CD21, CD19, and Leu13. This complex reduces the threshold for B cell activation via the B cell receptor by bridging Ag specific recognition and CD21-mediated complement recognition.
Predicted N Terminal	Gly
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant rat Cd81 consists of 88 amino acids and predicts a molecular mass

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	of 9.7 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 85 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cd81 Cd81 molecule [Rattus norvegicus]
Official Symbol	Cd81
Synonyms	CD81; Cd81 molecule; CD81 antigen; CD 81 antigen; 26 kDa cell surface protein TAPA-1; target of the antiproliferative 1; CD81 antigen (target of antiproliferative 1); Tapa1;
Gene ID	25621
mRNA Refseq	NM_013087
Protein Refseq	NP_037219

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