Data Sheet (Cat.No.TMPY-03873)

TargetMol

CLEC4B2 Protein, Rat, Recombinant (His)

General Information

Synonyms:	Aplra1;CLEC4B2;C-type lectin domain family 4, member b2
Protein Construction:	A DNA sequence encoding the rat CLEC4B2 (Q67DU9) (Met44-Leu208) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Rat
Expression Host:	HEK293 Cells
Accession:	Q67DU9
Molecular Weight:	21.8 kDa (predicted); 31-36 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Clec4b2, also known as mDCAR1, is a member of the DCIR/DCAR family. Expression of Clec4b2 was strongly tissue dependent. Clec4b2 expression on DCs was restricted to the CD8(+) DC subset in spleen and thymus and on subpopulations of CD11b(+) myeloid cells in bone marrow and spleen, whereas the molecule was not detectable on both cell types in lymph nodes and peripheral blood. Clec4b2 is a functional receptor on cells of the immune system and provides further insights into the regulation of immune responses by CLRs.

Reference

Katayama S. et al., 2005, Science. 309 (5740): 1564-6.
Kaden SA. et al., 2009, J Immunol. 183 (8): 5069-78.
Skarnes WC. et al., 2011, Nature. 474 (7351): 337-42.

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