

Mouse ART4 / CD297 Protein (His Tag)

Catalog Number: 51093-M08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

4432404K01Rik; ARTC4; DO; DOK1

Protein Construction:

A DNA sequence encoding the mature form of mouse ART4 (EDL10575.1) (Met1-Lys 263) was expressed, with a C-terminal polyhistidine tag.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 92 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gly 24

Molecular Mass:

The recombinant mouse ART4 consists of 251 amino acids and predicts a molecular mass of 28.2 KDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of mART4 is approximately 40-45 KDa as a result of glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

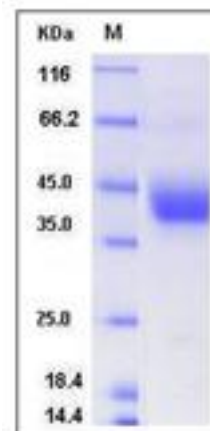
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

ADP-ribosyltransferase 4 (Dombrock blood group), also known as Mono-ADP-ribosyltransferase 4(ART4), Dombrock blood group carrier molecule and CD297, is a protein that contains a mono-ADP-ribosylation (ART) motif. It is a member of the ADP-ribosyltransferase gene family but enzymatic activity has not been demonstrated experimentally. ADP-ribosyltransferase catalyzes the ADP-ribosylation of arginine residues in proteins. Mono-ADP-ribosylation is a posttranslational modification of proteins that is interfered with by a variety of bacterial toxins including cholera, pertussis, and heat-labile enterotoxins of *E. coli*. ART4 could be detected on HEL cells and erythrocytes by FACS analysis while it was absent from activated monocytes, despite the presence of ART4 mRNA in these cells. ART is also known as the carrier of the Dombrock blood group alloantigens (Do) which is glycosylphosphatidylinositol-anchored to the erythrocyte membrane.

References

- 1.Parusel I, *et al.* (2005) A panel of monoclonal antibodies recognizing GPI-anchored ADP-ribosyltransferase ART4, the carrier of the Dombrock blood group antigens. *Cell Immunol.* 236(1-2): 59-65.
- 2.Friedrich M, *et al.* (2005) Analysis of the 3' UTR of the ART3 and ART4 gene by 3' inverse RACE-PCR. *DNA Seq.* 16(1): 53-7.
- 3.Okazaki IJ, *et al.* (1998) Glycosylphosphatidylinositol-anchored and secretory isoforms of mono-ADP-ribosyltransferases. *J Biol Chem.* 273(37): 23617-20.

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