

Mouse anti-Rat ART4/CD297 Monoclonal Antibody | anti-ART4 antibody

Anti-ART4/CD297 Antibody, Mouse Monoclonal

CATALOG # AAA257326	HOST Mouse	REACTIVITY Rat	APPLICATIONS Immunohistochemistry
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PRODUCT SYNONYMS

ART4/CD297; Monoclonal Antibody; Anti-ART4/CD297 Antibody; Mouse Monoclonal; CD297 Antibody; Mouse MAb; ADP-ribosyltransferase 4 (Dombrock blood group); anti-ART4 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Rat
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Number	08
Specificity	Rat CD297
Purity/Purification	Protein A
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-ART4 antibody	IHC (Immunohistochemistry)
Immunogen	Recombinant Rat CD297 Protein
Conjugation	Unconjugated
Preparation	This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, recombinant Rat CD297 (rR CD297). The IgG fraction of the cell culture supernatant was purified by Protein A affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of rat ART4 in rat liver with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of rat ART4 in rat kidney with mouse monoclonal antibody (1:60, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-ART4 antibody	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	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.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.Okazaki IJ, et al. (1998) Glycosylphosphatidylinositol-anchored and secretory isoforms of mono-ADP-ribosyltransferases. J Biol Chem. 273(37): 23617-20.

NCBI AND UNIPROT INFORMATION

NCBI GI #	291042681
NCBI GeneID	312806
NCBI Accession #	NP_001166980.1
NCBI GenBank Nucleotide #	NM_001173509.1
UniProt Accession #	F1MA10
Molecular Weight	34,216 Da
NCBI Official Full Name	ecto-ADP-ribosyltransferase 4
NCBI Official Synonym Full Names	ADP-ribosyltransferase 4
NCBI Official Symbol	Art4
NCBI Official Synonym Symbols	ATR4
NCBI Protein Information	ecto-ADP-ribosyltransferase 4
UniProt Protein Name	NAD(P)(+)-arginine ADP-ribosyltransferase
UniProt Gene Name	Art4

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/art4-cd297-antibody-clone-08-immunohistochemistry-elisa/257326>