



CD297 Polyclonal Antibody

Catalog No	YP-Ab-10677
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	ART4 DO DOK1
Immunogen	Synthetic peptide from human protein at AA range: 181-230
Specificity	The antibody detects endogenous CD297
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC-p 1:50-200, ELISA 1:10000-20000. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	ADP-ribosyltransferase C2 and C3 toxin-like 4;Art4;ARTC4;CD297;EC:2.4.2.31; ART4 DO DOK1;Ecto-ADP-ribosyltransferase 4 (EC 2.4.2.31) (ADP-ribosyltransferase C2 and C3 toxin-like 4) (ARTC4) (Dombrock blood group carrier molecule) (Mono(ADP-ribosyl)transferase 4) (NAD(P)(+)--arginine ADP-ri; Ecto-ADP-ribosyltransferase 4 (EC 2.4.2.31;Dombrock blood group carrier molecule;Mono(ADP-ribosyl)transferase 4;NAD(P)(+)--arginine ADP-ribosyltransferase 4;CD antigen CD297)
Observed Band	
Calculated Molecular Weight	
Cell Pathway	Cell membrane; Lipid-anchor, GPI-anchor.
Tissue Specificity	Expressed in spleen and T-cells.
Function	catalytic activity:NAD(+) + protein-L-arginine = nicotinamide + N(omega)-(ADP-D-ribosyl)-protein-L-arginine.,catalytic activity:NADP(+) + protein-L-arginine = nicotinamide + N(omega)-((2'-phospho-ADP)-D-ribosyl)-protein-L-arginine., online information:Blood group antigen gene mutation database, polymorphism:DO is responsible for the Dombrock blood group system. The molecular basis of the Do(a)/Do(b) blood group antigen is a single variation in position 265; Asn-265 corresponds to Do(a) and Asp-265 to Do(b). It is also



responsible for the antigens Gregory [Gy(a)], Holley [Hy] and Joseph [Jo(a)]., similarity:Belongs to the Arg-specific ADP-ribosyltransferase family.,tissue specificity:Expressed in spleen and T-cells.,

Background

This gene encodes 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. Antigens of the Dombrock blood group system are located on the gene product, which is glycosylphosphatidylinositol-anchored to the erythrocyte membrane. Allelic variants, some of which lead to adverse transfusion reactions, are known. [provided by RefSeq, Jul 2008],

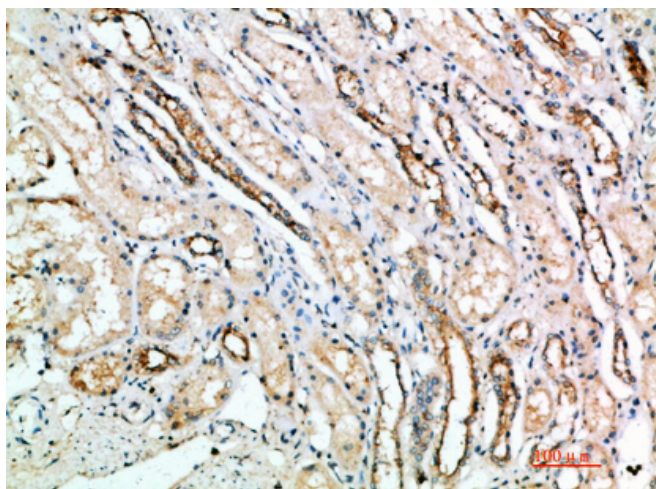
matters needing attention

Avoid repeated freezing and thawing!

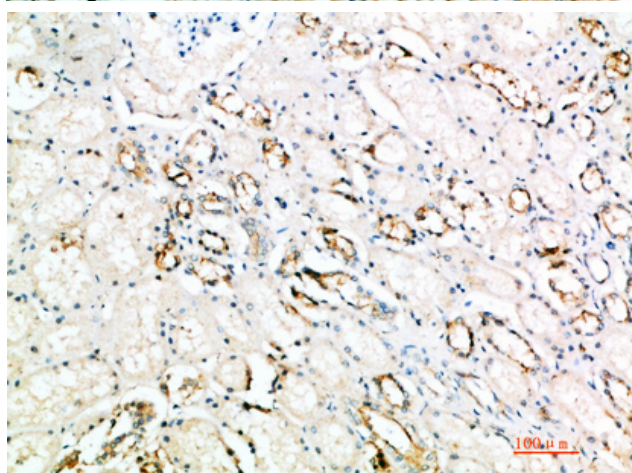
Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200



Immunohistochemical analysis of paraffin-embedded human-kidney, antibody was diluted at 1:200