10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

ART3 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2312a

Product Information

Application	WB, E
Primary Accession	Q13508
Other Accession	NP_001170
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB4941
Calculated MW	43923
Antigen Region	12-42

Additional Information

Gene ID	419
Other Names	Ecto-ADP-ribosyltransferase 3, ADP-ribosyltransferase C2 and C3 toxin-like 3, ARTC3, Mono(ADP-ribosyl)transferase 3, NAD(P)(+)--arginine ADP-ribosyltransferase 3, ART3, TMART
Target/Specificity	This ART3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-42 amino acids from the N-terminal region of human ART3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	ART3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ART3
Synonyms	TMART

Cellular Location	Cell membrane; Lipid-anchor, GPI-anchor.
Tissue Location	Testis specific.

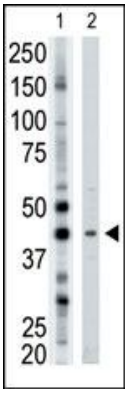
Background

Mono-ADP-ribosylation involves the transfer of the ADP-ribose moiety from NAD+ to a specific amino acid in the target protein. The rodent mono-ADP-ribosyltransferase RT6 is a glycosylphosphatidylinositol (GPI)-anchored membrane protein specifically expressed at the cell surface of rat and mouse T lymphocytes. The predicted 367-amino acid human ART3 protein has an estimated molecular mass of 41.5 kD and contains a hydrophobic peptide signal at its N terminus, 3 consensus motifs specific to enzymes catalyzing ADP-ribose transfer, a hydrophobic C-terminal sequence characteristic of a GPI-anchored protein, a novel motif repeated 3 times at its C terminus, and 1 potential glycosylation site.1 The ART3 and rodent RT6 proteins share 35% amino acid identity.

References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).
Koch-Nolte, F., et al., Genomics 39(3):370-376 (1997).
Levy, I., et al., FEBS Lett. 382(3):276-280 (1996).

Images



The anti-ART3 Pab (Cat. #AP2312a) is used in Western blot to detect ART3 in mouse brain tissue lysate.