



ART4 (E-16): sc-74329

BACKGROUND

ART4 (ADP-ribosyltransferase 4), also known as DO, DOK1 or CD297, is a 314 amino acid protein that is lipid-anchored to the cell membrane and belongs to the Arg-specific ADP-ribosyltransferase family. Expressed in spleen tissue, as well as in T cells, ART4 functions to catalyze both the NAD⁺-dependent conversion of protein-L-arginine to nicotinamide and N^ω-(ADP-D-ribosyl)-protein-L-arginine and the NADP⁺-dependent conversion of protein-L-arginine to nicotinamide and N^ω-(2'-phospho-ADP)-D-ribosyl)-protein-L-arginine. Via its catalytic activity, ART4 is responsible for the Dombrock blood group antigen system. The gene encoding ART4 maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome.

REFERENCES

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: Art4 (mouse) mapping to 6 G1.

SOURCE

ART4 (E-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of ART4 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-74329 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

ART4 (E-16) is recommended for detection of ART4 of mouse and rat origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for ART4 siRNA (m): sc-72540, ART4 shRNA Plasmid (m): sc-72540-SH and ART4 shRNA (m) Lentiviral Particles: sc-72540-V.

Molecular Weight of ART4: 36 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.