

Polyclonal Antibody to ARTS - Aff - Purified

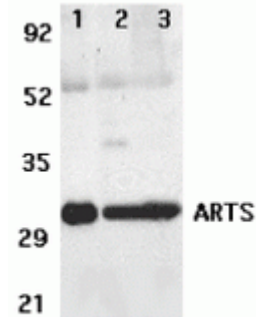
Catalog No.:	TA306101
Quantity:	0.1 mg
Background:	Apoptosis is related to many diseases and development. Mitochondrial proteins, such as cytochrome c, Apaf-1, and AIF play important role in apoptosis. A novel mitochondrial septin-like protein was identified recently and designated ARTS for apoptosis related protein in TGF- β signaling pathway (1). ARTS that is encoded by the human septin H5/PNUTL2/CDCrel2b gene (1-4) is located to mitochondria and translocates to the nucleus when apoptosis occurs. ARTS is expressed in many tissues. It enhances cell death induced by TGF- β and, to a lesser extent, by other apoptotic agents, such as TNF- α and Fas ligand.
Uniprot ID:	Q9H315
NCBI:	AAG45673
GenElD:	5414
Host / Isotype:	Rabbit / IgG
Immunogen:	Human ARTS Peptide (AP30082CP-N)
Format:	State: Liquid purified Ig fraction Purification: Affinity chromatography purified via peptide column Buffer System: PBS containing 0.02% sodium azide.
Applications:	ELISA. Western Blot: ARTS antibody can be used for detection of ARTS at 0.5 to 2 μ g/ml. Human lung, kidney and spleen tissue lysates can be used as a positive control and a band at 32 kDa can be detected. Immunohistochemistry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	ARTS antibody was raised against a synthetic peptide corresponding to amino acids near the amino terminus of human ARTS. Species: Human. Other species not tested.
Add. Information:	Blocking peptide available: blocking peptide (AP30082CP-N)
Storage:	Store the antibody undiluted at 2-8°C. Shelf life: one year from despatch.
General Readings:	1. Larisch S, Yi Y, Lotan R, Kerner H, Eimerl S, Tony Parks W, et al. A novel mitochondrial septin-like protein, ARTS, mediates apoptosis dependent on its P-loop motif. Nat Cell Biol. 2000 Dec;2(12):915-21. PubMed PMID: 11146656. 2. Depraetere V. The ARTS of apoptosis. Nat Cell Biol. 2000;2(12):E219. 3. Paavola P, Horelli-Kuitunen N, Palotie A, Peltonen L. Characterization of a novel gene,

PNUTL2, on human chromosome 17q22-q23 and its exclusion as the Meckel syndrome gene. Genomics. 1999 Jan 1;55(1):122-5. PubMed PMID: 9889007.

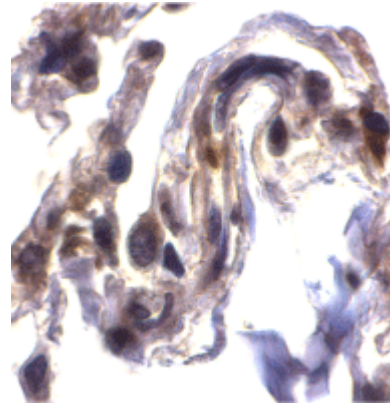
4. Zieger B, Tran H, Hainmann I, Wunderle D, Zgaga-Griesz A, Blaser S, et al. Characterization and expression analysis of two human septin genes, PNUTL1 and PNUTL2. Gene. 2000 Dec 31;261(2):197-203. PubMed PMID: 11167005.

Pictures:

Western blot analysis of ARTS expression in human lung (lane 1), spleen (lane 2), and kidney (lane 3) tissue lysates with ARTS antibody at 2 ug /ml.



Immunohistochemistry of ARTS in human lung tissue with ARTS antibody at 2 ug/ml.



Immunofluorescence of ARTS in Human Lung cells with ARTS antibody at 20 ug/mL.

