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SART1 Rabbit pAb

Catalog # AP97904

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	O43290
Other Accession	O43290
Predicted	Rat, Pig, Human, Mouse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90255
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SART1
Epitope Specificity	701-800/800
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the SNU66/SART1 family.
SUBUNIT	Identified in the spliceosome C complex. Part of a tri-snRNP complex.
Post-translational modifications	Sumoylated with SUMO2. Phosphorylated upon DNA damage, probably by ATM or ATR.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SART1 encodes two proteins, the SART1(800) protein expressed in the nucleus of the majority of proliferating cells, and the SART1(259) protein expressed in the cytosol of epithelial cancers. The SART1(259) protein is translated by the mechanism of -1 frameshifting during posttranscriptional regulation; its full length sequence is not published yet. The two encoded proteins are thought to be involved in the regulation of proliferation. Both proteins have tumor rejection antigens. The SART1(259) protein possesses tumor epitopes capable of inducing HLA-A2402-restricted cytotoxic T lymphocytes in cancer patients. This SART1(259) antigen may be useful in specific immunotherapy for cancer patients and may serve as a paradigmatic tool for the diagnosis and treatment of patients with atopy. The SART1(259) protein is found to be essential for the recruitment of the tri snRNP to the pre spliceosome in the spliceosome assembly pathway.

Additional Information

Gene ID	9092
Other Names	SNUT1_HUMAN; SART1; SNU66 homolog (hSnu66); Squamous cell carcinoma antigen recognized by T-cells 1 (SART-1 | hSART-1); U4/U6.U5 tri-snRNP-associated 110 kDa protein; Ara1; HAF; HOMS1; SART1259; SNRNP110; Snu66; spliceosome associated factor 1, recruiter of U4/U6.U5 tri-snRNP; squamous cell carcinoma antigen recognised by T cells; squamous

	cell carcinoma antigen recognized by T cells 1; squamous cell carcinoma antigen recognized by T-cells 1; SART1, U4/U6.U5 tri-snRNP-associated protein 1; small nuclear ribonucleoprotein 110kDa (U4/U6.U5); hypoxia associated factor
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	SART1
Function	Plays a role in mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the spliceosome. May also bind to DNA.
Cellular Location	Nucleus. Note=Found in the nucleus of mitogen- activated peripheral blood mononuclear cells (PBMCs), tumor cells, or normal cell lines, but not in normal tissues except testis and fetal liver or in unstimulated PBMCs, suggesting preferential expression in proliferating cells
Tissue Location	Ubiquitously expressed.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.