

ARS2 Rabbit pAb

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Catalog # AP58813

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9BXP5
Reactivity	Rat
Predicted	Pig, Dog, Human, Mouse, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	100666
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human ARS2
Epitope Specificity	721-800/876
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Nucleus. Cytoplasm.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	ARS2(Arsenite resistance protein 2) confers arsenite resistance. The protein belongs to the ARS2 family. Arsenic is a human carcinogen whose mechanism of action is unknown. The arsenite acts as a comutagen by interfering with DNA repair. Two genes, ASR1(Arsenite resistance protein 1) and ASR2 (Arsenite resistance protein 2), confer arsenite resistance to arsenite-sensitive cells. ASR1 shows almost complete homology with the rat fau gene, a tumor suppressor gene which contains a ubiquitin like region fused to S30 ribosomal protein. Arsenite inhibits ubiquitin dependent proteolysis. The tumor suppressor fau gene product or some other aspect of the ubiquitin system may be a target for arsenic toxicity and that disruption of the ubiquitin system may contribute to the genotoxicity and carcinogenicity of arsenite.

Additional Information

Gene ID	51593
Other Names	Serrate RNA effector molecule homolog, Arsenite-resistance protein 2, SRRT, ARS2, ASR2
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
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.

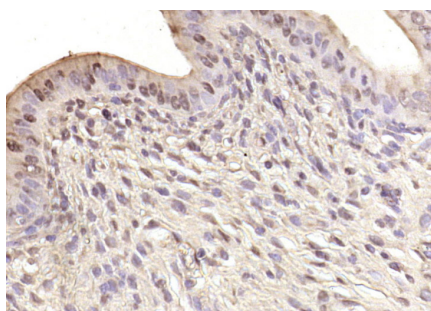
Protein Information

Name	SRRT
Synonyms	ARS2, ASR2
Function	Acts as a mediator between the cap-binding complex (CBC) and the primary microRNAs (miRNAs) processing machinery during cell proliferation. Contributes to the stability and delivery of capped primary miRNA transcripts to the primary miRNA processing complex containing DGCR8 and DROSHA, thereby playing a role in RNA-mediated gene silencing (RNAi) by miRNAs. Binds capped RNAs (m7GpppG-capped RNA); however interaction is probably mediated via its interaction with NCBP1/CBP80 component of the CBC complex. Involved in cell cycle progression at S phase. Does not directly confer arsenite resistance but rather modulates arsenic sensitivity. Independently of its activity on miRNAs, necessary and sufficient to promote neural stem cell self- renewal. Does so by directly binding SOX2 promoter and positively regulating its transcription (By similarity).
Cellular Location	Nucleus, nucleoplasm. Cytoplasm. Note=Predominantly nuclear. Shuttles between the nucleus and the cytoplasm in a CRM1-dependent way (By similarity)
Tissue Location	Ubiquitously expressed.

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Images



Paraformaldehyde-fixed, paraffin embedded (rat uterus); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (ARS2) Polyclonal Antibody, Unconjugated (AP58813) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

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