

ARG45554 anti-ARS2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ARS2
Tested Reactivity	Hu, Ms, Rat
Tested Application	FACS, ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ARS2
Species	Human
Immunogen	Recombinant protein containing to human ARS2.
Conjugation	Un-conjugated
Alternate Names	SRRT; Serrate, RNA Effector Molecule; ARS2; Serrate; Asr2; Serrate RNA Effector Molecule Homolog; Arsenite-Resistance Protein 2; Arsenite Resistance Protein; Serrate RNA Effector Molecule Homolog (Arabidopsis); Arsenate Resistance Protein ARS2; Arsenate Resistance Protein 2; ASR2

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	5 µg/ml
	IHC-P	2-5 µg/ml
	IP	0.5-2 µg/ml,
	WB	0.25-0.5 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	125 kDa	

Properties

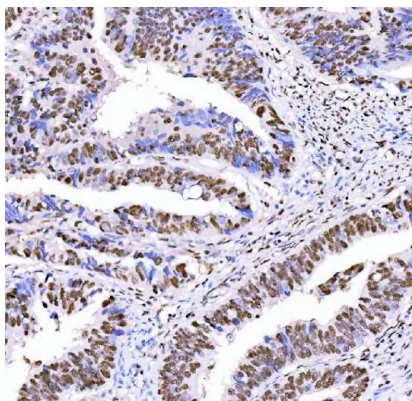
Form	Liquid
Purification	Affinity purified
Buffer	0.2% Na ₂ HPO ₄ , 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

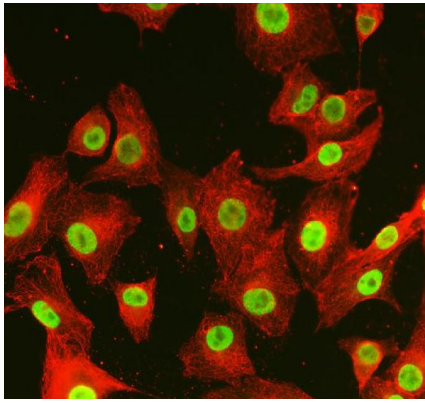
Gene Symbol	SRRT
Gene Full Name	Serrate, RNA Effector Molecule
Background	Enables mRNA cap binding complex binding activity and protein-macromolecule adaptor activity. Involved in primary miRNA processing. Located in nucleoplasm. Part of ribonucleoprotein complex. [provided by Alliance of Genome Resources, Feb 2025]
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. [UniProt]
Calculated Mw	101 kDa
PTM	Acetylation; Isopeptide bond; Methylation; Phosphoprotein; Ubl conjugation. [UniProt]
Cellular Localization	Cytoplasm; Nucleus. [UniProt]

Images



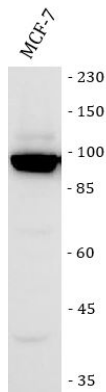
ARG45554 anti-ARS2 antibody IHC-P image

Immunohistochemistry: Human endometrioid adenocarcinoma stained with ARG45554 anti-ARS2 antibody at 2 µg/ml dilution.



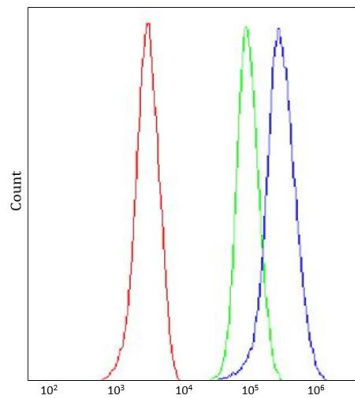
ARG45554 anti-ARS2 antibody ICC/IF image

Immunofluorescence: A549 stained with ARG45554 anti-ARS2 antibody at 5 $\mu\text{g}/\text{ml}$ dilution.



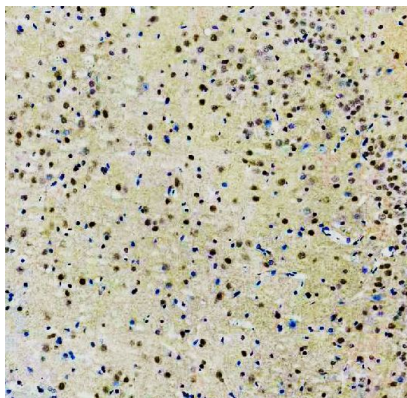
ARG45554 anti-ARS2 antibody WB image

Western blot: MCF-7 stained with ARG45554 anti-ARS2 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



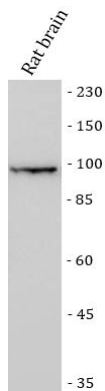
ARG45554 anti-ARS2 antibody FACS image

Flow Cytometry: MCF-7 stained with ARG45554 anti-ARS2 antibody at 1 $\mu\text{g}/10^6$ cells dilution.



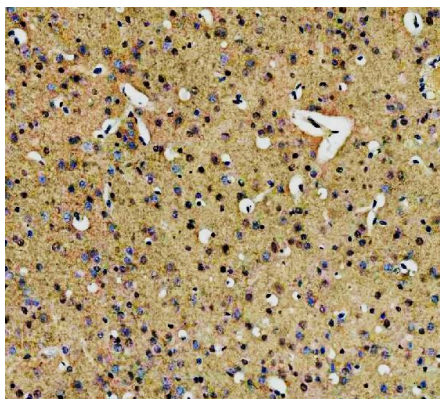
ARG45554 anti-ARS2 antibody IHC-P image

Immunohistochemistry: Rat brain stained with ARG45554 anti-ARS2 antibody at 2 $\mu\text{g}/\text{ml}$ dilution.



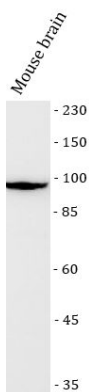
ARG45554 anti-ARS2 antibody WB image

Western blot: Rat brain stained with ARG45554 anti-ARS2 antibody at 0.5 $\mu\text{g/ml}$ dilution.



ARG45554 anti-ARS2 antibody IHC-P image

Immunohistochemistry: Mouse brain stained with ARG45554 anti-ARS2 antibody at 2 $\mu\text{g/ml}$ dilution.



ARG45554 anti-ARS2 antibody WB image

Western blot: Mouse brain stained with ARG45554 anti-ARS2 antibody at 0.5 $\mu\text{g/ml}$ dilution.