

ARG45496 anti-ACO1 / Aconitase 1 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes ACO1 / Aconitase 1
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	FACS, ICC/IF, IHC-P, WB
Specificity	ACO1 / Aconitase 1
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	ACO1 / Aconitase 1
Species	Human
Immunogen	Recombinant protein containing to human ACO1 / Aconitase 1.
Conjugation	Un-conjugated
Alternate Names	ACO; Aconitate hydratase 1; Aconitase 1; Citrate hydro-lyase 1

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	4 µg/ml
	IHC-P	0.5-1 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	98 kDa	

Properties

Form	Powder
Purification	Affinity purified
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.01% Sodium azide and 4% Trehalose.
Preservative	0.01% Sodium azide
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

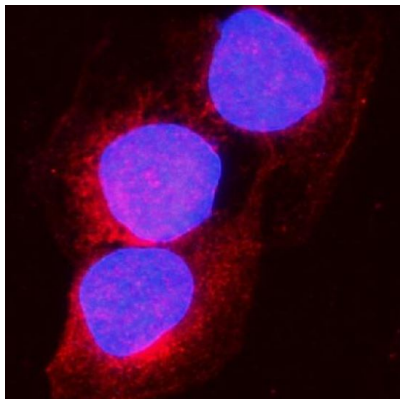
and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

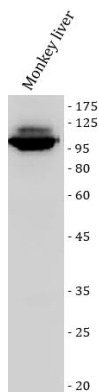
Gene Symbol	ACO1
Gene Full Name	aconitase 1
Background	Encodes an aconitase that can catalyze the conversion of citrate to isocitrate through a cis-aconitate intermediate, indicating that it may participate in the TCA cycle and other primary metabolic pathways. The protein is believed to accumulate in the mitochondria and the cytosol. It affects CSD2 (At2g28190 - a superoxide dismutase) transcript levels and may play a role in the response to oxidative stress. This enzyme can also specifically bind to the 5' UTR of CSD2 in vitro.
Function	Catalyzes the isomerization of citrate to isocitrate via cis-aconitate; Contributes to oxidative stress tolerance. [UniProt]
Calculated Mw	98 kDa
PTM	Bifunctional iron sensor that switches between 2 activities depending on iron availability. [UniProt]
Cellular Localization	Cytoplasm; Mitochondrion. [UniProt]

Images



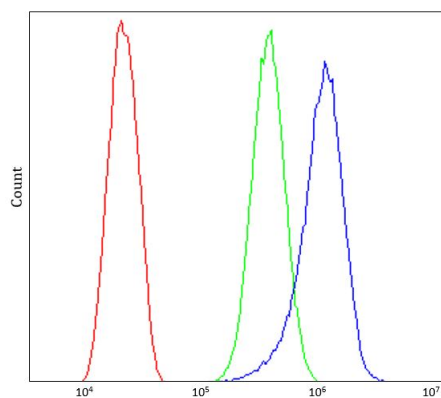
ARG45496 anti-ACO1 / Aconitase1 antibody ICC/IF image

Immunofluorescence: A431 stained with ARG45496 anti-ACO1 / Aconitase1 antibody at 4 µg/ml dilution.



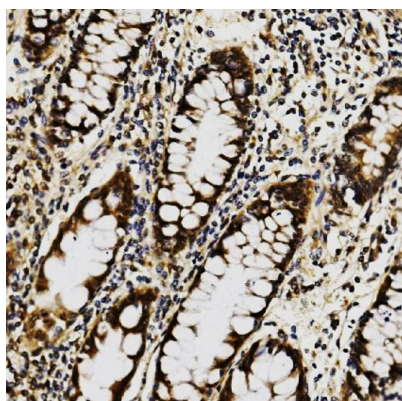
ARG45496 anti-ACO1 / Aconitase1 antibody WB image

Western blot: Monkey liver stained with ARG45496 anti-ACO1 / Aconitase1 antibody at 0.5 µg/ml dilution.



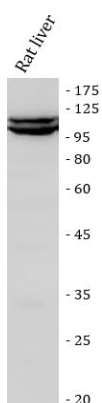
ARG45496 anti-ACO1 / Aconitase1 antibody FACS image

Flow Cytometry: SiHa stained with ARG45496 anti-ACO1 / Aconitase1 antibody at 1 $\mu\text{g}/10^6$ cells dilution.



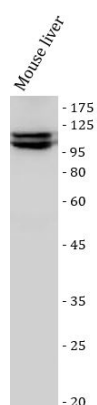
ARG45496 anti-ACO1 / Aconitase1 antibody IHC-P image

Immunohistochemistry: Human rectal cancer stained with ARG45496 anti-ACO1 / Aconitase1 antibody at 1 $\mu\text{g}/\text{ml}$ dilution.



ARG45496 anti-ACO1 / Aconitase1 antibody WB image

Western blot: Rat liver stained with ARG45496 anti-ACO1 / Aconitase1 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.



ARG45496 anti-ACO1 / Aconitase1 antibody WB image

Western blot: Mouse liver stained with ARG45496 anti-ACO1 / Aconitase1 antibody at 0.5 $\mu\text{g}/\text{ml}$ dilution.