

ARG43141 anti-CISD1 / mitoNEET antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CISD1 / mitoNEET
Tested Reactivity	Hu, Ms, Rat, Mk
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CISD1 / mitoNEET
Species	Human
Immunogen	Recombinant protein corresponding to Y28-E93 of Human CISD1 / mitoNEET.
Conjugation	Un-conjugated
Alternate Names	MDS029; mitoNEET; C10orf70; CDGSH iron-sulfur domain-containing protein 1; MitoNEET; ZCD1

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	IHC-P	1:200 - 1:1000
	WB	1:500 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 15 kDa	

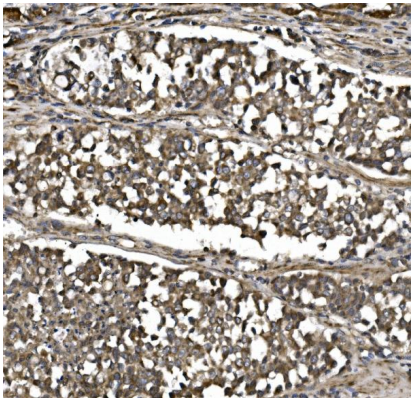
Properties

Form	Liquid
Purification	Immunogen affinity purified.
Buffer	0.2% Na2HPO4, 0.9% NaCl, 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.

Bioinformation

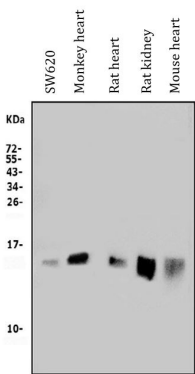
Gene Symbol	CISD1
Gene Full Name	CDGSH iron sulfur domain 1
Background	This gene encodes a protein with a CDGSH iron-sulfur domain and has been shown to bind a redox-active [2Fe-2S] cluster. The encoded protein has been localized to the outer membrane of mitochondria and is thought to play a role in regulation of oxidation. Genes encoding similar proteins are located on chromosomes 4 and 17, and a pseudogene of this gene is located on chromosome 2. [provided by RefSeq, Feb 2012]
Function	Plays a key role in regulating maximal capacity for electron transport and oxidative phosphorylation (By similarity). May be involved in Fe-S cluster shuttling and/or in redox reactions. [UniProt]
Calculated Mw	12 kDa
PTM	Ubiquitinated by PRKN during mitophagy, leading to its degradation and enhancement of mitophagy. Deubiquitinated by USP30. [UniProt]
Cellular Localization	Mitochondrion outer membrane; Single-pass type III membrane protein. [UniProt]

Images



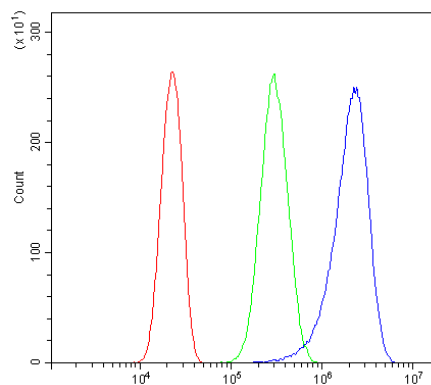
ARG43141 anti-CISD1 / mitoNEET antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43141 anti-CISD1 / mitoNEET antibody at 2 µg/ml dilution, overnight at 4°C.



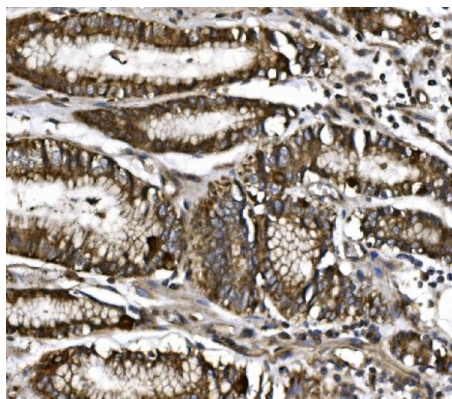
ARG43141 anti-CISD1 / mitoNEET antibody WB image

Western blot: 50 µg of sample under reducing conditions. SW620, Monkey heart, Rat heart, Rat kidney and Mouse heart lysates stained with ARG43141 anti-CISD1 / mitoNEET antibody at 0.25 µg/ml dilution, overnight at 4°C.



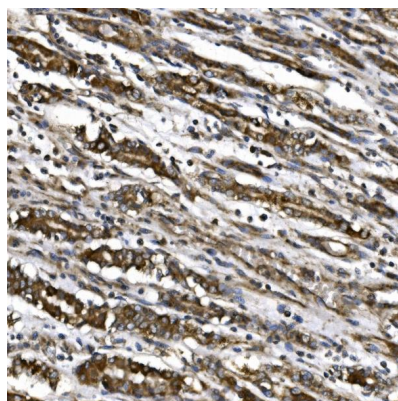
ARG43141 anti-CISD1 / mitoNEET antibody FACS image

Flow Cytometry: PC-3 cells were blocked with 10% normal goat serum and then stained with ARG43141 anti-CISD1 / mitoNEET antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



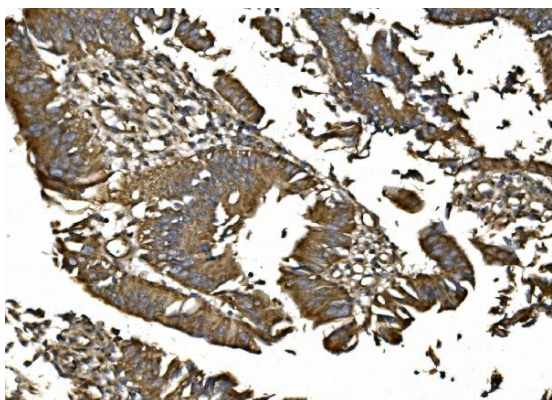
ARG43141 anti-CISD1 / mitoNEET antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43141 anti-CISD1 / mitoNEET antibody at 2 µg/ml dilution, overnight at 4°C.



ARG43141 anti-CISD1 / mitoNEET antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43141 anti-CISD1 / mitoNEET antibody at 2 µg/ml dilution, overnight at 4°C.



ARG43141 anti-CISD1 / mitoNEET antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human rectal cancer tissue. Antigen Retrieval: Heat mediation was performed in EDTA buffer (pH 8.0). The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG43141 anti-CISD1 / mitoNEET antibody at 2 µg/ml dilution, overnight at 4°C.