ARG57013
anti-CISD1 / mitoNEET antibody [1A8]

Package: 50 µl
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [1A8] recognizes CISD1 / mitoNEET
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Mouse
Clonality	Monoclonal
Clone	1A8
Isotype	IgG1, kappa
Target Name	CISD1 / mitoNEET
Species	Human
Immunogen	Recombinant fragment around aa. 32-108 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	Assay-dependent
WB	1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

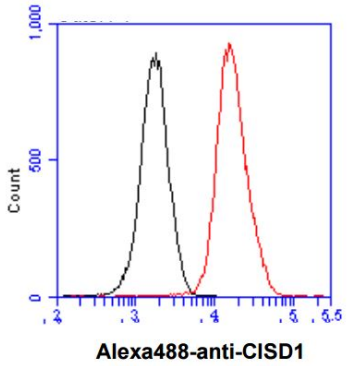
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS (pH 7.4), 0.02% Sodium azide and 10% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	10% Glycerol
Concentration	1 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. 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

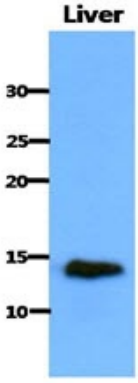
Database links	GeneID: 55847 Human Swiss-port # Q9NZ45 Human
Gene Symbol	CISD1
Gene Full Name	CDGSH iron sulfur domain 1
Background	This gene encodes a protein with a CDGSH iron-sulfur domain and has been shown to bind a redox-active [2Fe-2S] cluster. The encoded protein has been localized to the outer 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.

Images



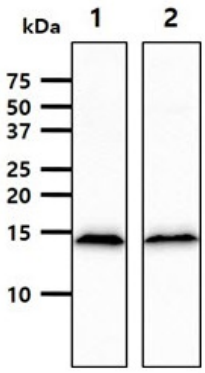
ARG57013 anti-CISD1 / mitoNEET antibody [1A8] FACS image

Flow Cytometry: THP-1 cell line stained with ARG57013 anti-CISD1 / mitoNEET antibody [1A8] at 2-5 µg for 1x10^6 cells (red line). Secondary antibody: Goat anti-Mouse IgG Alexa fluor 488 conjugate. Isotype control antibody was Mouse IgG (black line).



ARG57013 anti-CISD1 / mitoNEET antibody [1A8] WB image

Western blot: 40 µg of Mouse liver lysate stained with ARG57013 anti-CISD1 / mitoNEET antibody [1A8] at 1:1000.



ARG57013 anti-CISD1 / mitoNEET antibody [1A8] WB image

Western blot: 40 µg of 1) K562 cell lysate, 2) MCF7 cell lysate stained with ARG57013 anti-CISD1 / mitoNEET antibody [1A8] at 1:1000.