For Research Use Only

ISCU Polyclonal antibody Catalog Number:14812-1-AP Featured Product

Featured Product





Applications Ter Siz So Rai Iso IgC Im AC Sp hu	Soul, Concentration: 700 ug/ml by anodrop; burce: hbbit otype: G munogen Catalog Number: G6562 ested Applications: B, IHC, IF/ICC, IP, ELISA ted Applications: B, IHC, IF pecies Specificity:	UNIPROT ID: Q9H1K1 Full Name:	.9 kDa Positive Cont WB : mouse he	neart tissue, Raji cells, A549 cells, HeLa
Cit We Sp hu	B, IHC, IF/ICC, IP, ELISA ted Applications: B, IHC, IF pecies Specificity:		WB: mouse he	neart tissue, Raji cells, A549 cells, HeLa
Cit We Sp hu	B, IHC, IF/ICC, IP, ELISA ted Applications: B, IHC, IF pecies Specificity:		WB: mouse he	neart tissue, Raji cells, A549 cells, HeLa
Sp hu	pecies Specificity:		Positive Controls: WB : mouse heart tissue, Raji cells, A549 cells, HeL cells, COLO 320 cells IP : mouse heart tissue,	
	Species Specificity: human, mouse, rat Cited Species:			endometrial cancer tissue, human lung
	iman, mouse, rat		IF/ICC : MCF-	-7 cells,
Background Information From the second seco	retrieval may be performed with citrate buffer pH 6.0 Iron-sulfur (Fe-S) clusters are required for the functions of mitochondrial aconitase, mammalian iron regulatory protein 1, and many other proteins in multiple subcellular compartments. Mitochondrial and cytosolic isoforms of the human Fe-S cluster scaffold protein, iron-sulfur cluster assembly enzyme (ISCU), is involved in activation of iror uptake, redistribution of intracellular iron, and decreased utilization of iron in Fe-S proteins. Defects in ISCU gene are the cause of myopathy with exercise intolerance Swedish type (MEIS), which is characterized by lifelong severe exercise intolerance (PMID: 18304497). Two ISCU isoforms ISCU1 (cytosolic, 15 kDa) and ISCU2 (mitochondrial, 18 kDa), were produced by alternative splicing, and ISCU2 is considered the canonical isoform1. ISCU2 protein is rapidly processed upon maturation (PMID: 11060020). Proteintech's ISCU antibody 14812-1-AP is raised against the full-length ISCU2 and is expected to detect 14 kDa,15 kDa and 18-19 kDa bands which has been reported in the previous observation (PMID: 11060020).			
Notable Publications	uthor Pu	Jbmed ID	Journal	Application
	ıfeng Zhang 31	1530015	FASEB J	WB
Sh	nashank Masaldan 28	3888202	Redox Biol	WB
Yu	ıki Funauchi 26	5560363	Sci Rep	WB,IHC,IF
Storage Sto Sto PB	orage: ore at -20°C. Stable for one year aft orage Buffer: 35 with 0.02% sodium azide and 50 iquoting is unnecessary for -20°C s	0% glycerol, pH7.3	3	
*** 20ul sizes contain 0.1% BSA	- •	-		

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E: proteintech@ptglab.com W: ptglab.com

Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 14812-1-AP (ISCU antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



IP result of anti-ISCU (IP:14812-1-AP, 3ug; Detection:14812-1-AP 1:500) with mouse heart tissue lysate 4000ug.



Immunohistochemical analysis of paraffinembedded human endometrial cancer tissue slide using 14812-1-AP (ISCU Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human endometrial cancer tissue slide using 14812-1-AP (ISCU Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



WB result of ISCU antibody (14812-1-AP; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-ISCU transfected A549 cells.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using ISCU antibody (14812-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).