

Rabbit ISCU Polyclonal Antibody | anti-ISCU antibody

ISCU Antibody

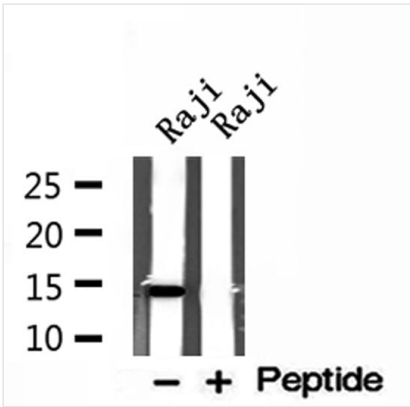
CATALOG # AAA322982	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

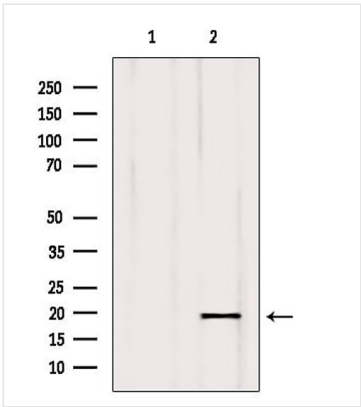
ISCU; Polyclonal Antibody; ISCU Antibody; 2310020H20Rik; HML; hnifU; Iron sulfur cluster assembly enzyme ISCU mitochondrial; Iron sulfur cluster scaffold homolog (E. coli); Iron sulfur cluster scaffold homolog; Iron-sulfur cluster assembly enzyme ISCU; Iscu; IscU iron sulfur cluster scaffold homolog; ISCU_HUMAN; ISU2; MGC74517; mitochondrial; NIFU; NifU like N terminal domain containing; NifU like N terminal domain containing protein; NifU like protein; NifU-like N-terminal domain-containing protein; NifU-like protein; NIFUN; Nitrogen fixation cluster like; OTTHUMP00000238760; OTTHUMP00000238761; OTTHUMP00000238762; OTTHUMP00000238764; OTTHUMP00000238765; anti-ISCU antibody

PRODUCT SPECIFICATIONS

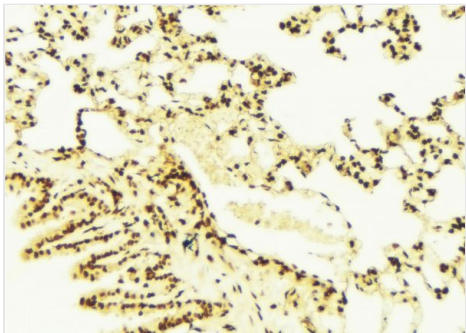
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ISCU antibody detects endogenous levels of ISCU.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	154
Applicable Applications for anti-ISCU antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ISCU.
Subcellular Location	Cytoplasm. Nucleus and Mitochondrion.
Tissue Specificity	Detected in heart, liver, skeletal muscle, brain, pancreas, kidney, lung and placenta.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (83%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts of Raji cells, using ISCU antibody.



WB (Western Blot)
Western blot analysis of extracts from rat spleen, using ISCU antibody. Lane 1 was treated with the blocking peptide.



IHC (Immunohistochemistry)
AAA322982 at 1/100 staining Mouse lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-ISCU antibody	Function: Scaffold protein for the de novo synthesis of iron-sulfur (Fe-S) clusters within mitochondria, which is required for maturation of both mitochondrial and cytoplasmic [2Fe-2S] and [4Fe-4S] proteins (PubMed:11060020). First, a [2Fe-2S] cluster is transiently assembled on the scaffold protein ISCU. In a second step, the cluster is released from ISCU, transferred to a glutaredoxin GLRX5, followed by the formation of mitochondrial [2Fe-2S] proteins, the synthesis of [4Fe-4S] clusters and their target-specific insertion into the recipient apoproteins. Cluster assembly on ISCU depends on the function of the cysteine desulfurase complex NFS1-LYRM4/ISD11, which serves as the sulfur donor for cluster synthesis, the iron-binding protein frataxin as the putative iron donor, and the electron transfer chain comprised of ferredoxin reductase and ferredoxin, which receive their electrons from NADH (By similarity). Subunit Structure: Binds NFS1 (PubMed:11060020). Interacts with HSCB (PubMed:20668094). Interacts with GLRX5 (PubMed:26100117). Interacts with HSPA9 (PubMed:26702583). Similarity: Belongs to the NifU family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	987996593
NCBI GeneID	23479
NCBI Accession #	NP_001306971.1
NCBI GenBank Nucleotide #	NM_001320042.1
UniProt Accession #	Q9H1K1; Q6P713; Q99617; Q9H1K2

Molecular Weight	Observed: 14-15 kDa; 18-19 kDa Predicted: 18 kDa
NCBI Official Full Name	iron-sulfur cluster assembly enzyme ISCU, mitochondrial isoform 3
NCBI Official Synonym Full Names	iron-sulfur cluster assembly enzyme
NCBI Official Symbol	ISCU
NCBI Official Synonym Symbols	HML; ISU2; NIFU; NIFUN; hnifU; 2310020H20Rik
NCBI Protein Information	iron-sulfur cluster assembly enzyme ISCU, mitochondrial
UniProt Protein Name	Iron-sulfur cluster assembly enzyme ISCU, mitochondrial
UniProt Gene Name	ISCU
UniProt Synonym Gene Names	NIFUN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/iscu-antibody-immunohistochemistry-western-blot-elisa/322982>