

Rabbit MOTS-c Polyclonal Antibody | anti-MOTS-c antibody

Rabbit Polyclonal Anti-MOTS-c antibody

CATALOG # AAA14413	HOST Rabbit	APPLICATIONS ELISA, Immunoprecipitation, Western Blot, Dot Blot
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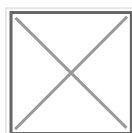
PRODUCT SYNONYMS

MOTS-c; Polyclonal Antibody; Rabbit Polyclonal Anti-MOTS-c antibody; Mitochondrial Derived Peptide MOTS-c; MOTS; MOTS c; anti-MOTS-c antibody

PRODUCT SPECIFICATIONS

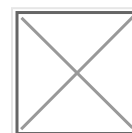
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Form/Format	Affinity Purified Immunoglobulins
Concentration	0.75 mg/ml IgG in antibody stabilization buffer (varies by lot)
Sequence Length	16
Applicable Applications for anti-MOTS-c antibody	ELISA, IP (Immunoprecipitation), WB (Western Blot), DB (Dot Blot)
Application Notes	Dot Blot: 1:10,000 ELISA: 1:10,000 Immunoprecipitation: 1:200 Western Blot: 1:500 Dilutions are for reference only. Applications not listed above are not necessarily precluded from working with this antibody. Investigations intending to use an application that has not been verified can request a complimentary sample.
Immunogen	Full-length peptide corresponding to amino acids 1-16 on MOTS-c.
Species Cross Reactivity	Human
Preparation and Storage	Store at -20°C for long term storage.

IMAGES



IHC (Immunohistochemistry)

Rat Skeletal Muscle- MOTS-c Primary Antibody: AAA14413; 1:50 dilution in IHC Blocking Buffer. DAB (brown) staining and Hematoxylin QS (blue) counterstain. 40X magnification on Leica DM4000. FFPE section.



WB (Western Blot)

Western Blot of AAA14413 with HepG2 cells.

ADDITIONAL INFORMATION

Related Product Information for anti-MOTS-c antibody	Description: Affinity Purified Mitochondrial-Derived Peptide MOTS-c Antibody Overview: Mitochondria are functioning organelles that play a secondary role in signaling within the cell. While the details of mitochondrial signaling are not fully understood, the identification of an open reading frame in the mitochondrial DNA coding for humanin suggests that there are more signaling peptides coded by portions of the mtDNA. A short open reading frame within the 12S subunit of the mitochondrial ribosomal RNA codes for a 16 amino acid peptide called mitochondrial open reading frame of 12S rRNA-c, or MOTS-c. MOTS-c plays a role in insulin sensitivity and metabolic homeostasis (1). MOTS-c targets skeletal muscle tissue, and the mechanism of its action involves inhibition of the folate cycle. MOTS-c promotes the formation of an endogenous AMP analog called 5-aminoimidazole-4-carboxamide ribonucleotide (AICAR). AICAR is an activator of AMPK, suggesting that MOTS-c could be used in an insulin-regulation capacity in order to treat type 2 diabetes (2). MOTS-c selective antibodies were generated against a peptide taken from the human protein. The MOTS-c-selective antibodies are affinity purified on an immobilized antigen based affinity matrix, the isolated antibodies were then stabilized in antibody stabilization buffer for long-term storage. The MOTS-c-selective antibodies are fully characterized for applications in western blotting and ELISA at the recommended dilutions. The lab provides MOTS-c Western blot positive control samples in "ready-to-use" SDS-PAGE sample buffer. Antigenic blocking peptide for MOTS-c antibody is also available, please inquire before ordering. The lab can conjugate this antibody to fluorophores and other secondary enzymes as an additional service.
Product Categories/Family for anti-MOTS-c antibody	Primary Antibodies; Cell Biology; Organelles; Mitochondria; MOTS-c Antibody

NCBI AND UNIPROT INFORMATION

NCBI GI #	756542780
UniProt Accession #	A0A0C5B5G6
NCBI Official Full Name	MOTS-c
UniProt Protein Name	Mitochondrial-derived peptide MOTS-c
UniProt Gene Name	MT-RNR1
UniProt Entry Name	MOTSC_HUMAN

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/mots-c-antibody-immunoprecipitation-western-blot-dot-blot-elisa/14413>