

Rabbit anti-Human MARS1 Polyclonal Antibody | anti-MARS1 antibody

Anti-MARS1 Antibody Picoband

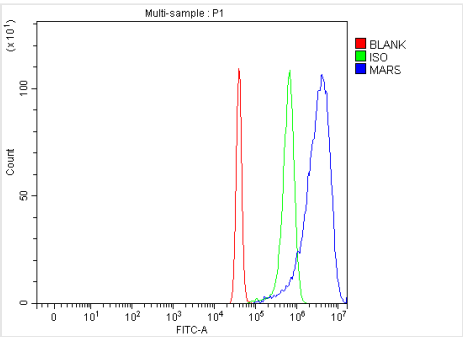
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA125985	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

MARS1; Polyclonal Antibody; Anti-MARS1 Antibody Picoband; anti-MARS1 antibody

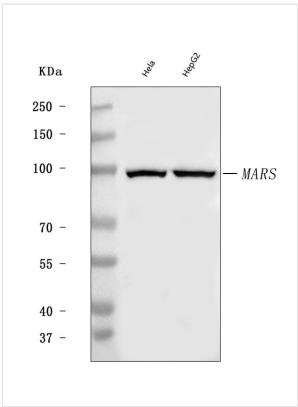
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-MARS1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human MARS1 recombinant protein (Position: R25-E887).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of SiHa cells using anti-MARS1 antibody (AAA125985).Overlay histogram showing SiHa cells stained with AAA125985 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MARS1 Antibody (AAA125985, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)

Figure 1. Western blot analysis of MARS1 using anti-MARS1 antibody (AAA125985).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HeLa whole cell lysates,Lane 2: human HepG2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-MARS1 antigen affinity purified polyclonal antibody (#AAA125985) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for MARS1 at approximately 99 kDa. The expected band size for MARS1 is at 101 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MARS1 antibody	This gene encodes a member of the class I family of aminoacyl-tRNA synthetases. These enzymes play a critical role in protein biosynthesis by charging tRNAs with their cognate amino acids. The encoded protein is a component of the multi-tRNA synthetase complex and catalyzes the ligation of methionine to tRNA molecules.
Product Categories/Family for anti-MARS1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	14043022
NCBI GeneID	4141
NCBI Accession #	NP_004981
NCBI GenBank Nucleotide #	NM_004990
UniProt Accession #	P56192; Q14895; Q53H14; Q96A15; Q96BZ0; Q9NSE0; B3KVK7
Molecular Weight	61,816 Da
NCBI Official Full Name	methionine--tRNA ligase, cytoplasmic
NCBI Official Synonym Full Names	methionyl-tRNA synthetase
NCBI Official Symbol	MARS
NCBI Official Synonym Symbols	MRS; METRS; MTRNS; SPG70
NCBI Protein Information	methionine--tRNA ligase, cytoplasmic; cytosolic methionyl-tRNA synthetase
UniProt Protein Name	Methionine--tRNA ligase, cytoplasmic
UniProt Gene Name	MARS

UniProt Synonym Gene Names	MetRS
UniProt Entry Name	SYMC_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/mars1-antibody-flow-cytometry-western-blot-elisa/125985>