

Rabbit anti-Human MIA3 Polyclonal Antibody | anti-MIA3 antibody

Anti-MIA3 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19862	Rabbit	Human	ELISA, Immunofluorescence, Immunohistochemistry, Immunocytochemistry, Western Blot, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

MIA3; Polyclonal Antibody; Anti-MIA3 Antibody Picoband; adenosylmethionine decarboxylase 1 ; S-adenosylmethionine decarboxylase proenzyme; AdoMetDC; SAMDC; 4.1.1.50; anti-MIA3 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Widely expressed with higher expression in lung, skeletal muscle, brain, uterus, ovary, thyroid and prostate.
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 .
Applicable Applications for anti-MIA3 antibody	ELISA, IF (Immunofluorescence), IHC (Immunohistochemistry), ICC (Immunocytochemistry), WB (Western Blot), FCM/FACS (Flow Cytometry)
Application Notes	WB: 0.25-0.5ug/ml, Human IHC(Paraffin-embedded Section): 2-5ug/ml, Human ICC/IF: 5ug/ml, Human FC/FACS (Fixed): 1-3ug/1x10 ⁶ cells, Human ELISA: 0.1-0.5ug/ml
Immunogen	E coli-derived human MIA3 recombinant protein (Position: E54-E1869).
Subcellular Localization	Nucleus
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	Essential for biosynthesis of the polyamines spermidine and spermine. Promotes maintenance and self-renewal of embryonic stem cells, by maintaining spermine levels.
Preparation and Storage	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 (Flow Cytometry)

Figure 6. Flow Cytometry analysis of 293T cells using anti-MIA3 antibody (AAA19862).Overlay histogram showing 293T cells stained with AAA19862 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-MIA3 Antibody (AAA19862, 1ug/1x106 cells) for 30 min at 20 degree C. DyLightMIA3 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 (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 5. IF analysis of MIA3 using anti-MIA3 antibody (AAA19862).MIA3 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MIA3 Antibody (AAA19862) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MIA3 Antibody (AAA19862) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MIA3 Antibody (AAA19862) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Lane 2: human K562 whole cell lysates,Lane 3: human Hacat 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-MIA3 antigen affinity purified polyclonal antibody (#AAA19862) at 0.5ug/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 MIA3 at approximately 300 kDa. The expected band size for MIA3 is at 300 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MIA3 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-MIA3 antibody	Primary Antibodies; Cancer; Cell Biology; Energy Metabolism; Energy Transfer Pathways; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Signal Transduction
References	1. Arndt, S., Bosserhoff, A. K. TANGO is a tumor suppressor of malignant melanoma. Int. J. Cancer 119: 2812-2820, 2006. 2. Bosserhoff, A. K., Moser, M., Buettner, R. Characterization and expression pattern of the novel MIA homolog of TANGO. Gene Expr. Patterns 4: 473-479, 2004.3. Cauwels, R. G. E. C., De Coster, P. J., Mortier, G. R., Marks, L. A. M., Martens, L. C. Dentinogenesis imperfecta associated with short stature, hearing loss and mental retardation: a new syndrome with autosomal recessive inheritance? J. Oral Path. Med. 34: 444-446, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	122891870
NCBI GeneID	375056
NCBI Accession #	NP_940953.2
NCBI GenBank Nucleotide #	NM_198551.3
UniProt Accession #	Q5JRA6; Q14083; Q3S4X3; Q5JRA5; Q5JRB0; Q5JRB1; Q5JRB2; Q6UVY8; A8K2S0; A8MT05; A8MT13; B7Z430
Molecular Weight	213,702 Da
NCBI Official Full Name	melanoma inhibitory activity protein 3 isoform 1
NCBI Official Synonym Full Names	melanoma inhibitory activity family, member 3
NCBI Official Symbol	MIA3

NCBI Official Synonym Symbols	ARNT; D320; TANGO; TANGO1; UNQ6077
NCBI Protein Information	melanoma inhibitory activity protein 3; C219-reactive peptide; transport and Golgi organization protein 1
UniProt Protein Name	Melanoma inhibitory activity protein 3
UniProt Gene Name	MIA3
UniProt Synonym Gene Names	KIAA0268; TANGO; TANGO1
UniProt Entry Name	MIA3_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/mia3-antibody-immunofluorescence-immunohistochemistry-immunocytochemistry-western-blot-flow-cytometry-elisa/19862>