

Rabbit MANSC4 Polyclonal Antibody | anti-MANSC4 antibody

Anti-MANSC4 Antibody Picoband

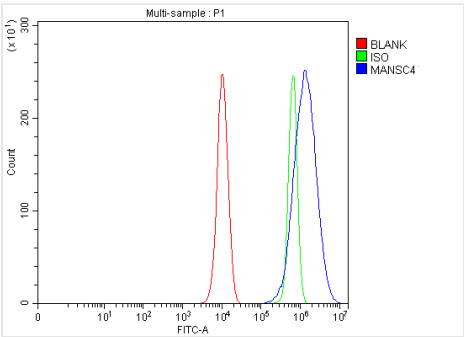
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127929	Rabbit	Human, Monkey, Mouse, Rat	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

MANSC4; Polyclonal Antibody; Anti-MANSC4 Antibody Picoband; Serine/threonine-protein kinase AtPK1/AtPK6; 70 kDa ribosomal protein S6 kinase 1 antibody; KS6B1_HUMAN antibody; p70 alpha antibody; P70 beta 1 antibody; p70 ribosomal S6 kinase alpha antibody; p70 ribosomal S6 kinase beta 1 antibody; p70 S6 kinase alpha antibody; P70 S6 Kinase antibody; p70 S6 kinase alpha 1 antibody; p70 S6 kinase alpha 2 antibody; p70 S6K antibody; p70 S6K-alpha antibody; p70 S6KA antibody; p70(S6K) alpha antibody; p70(S6K)-alpha antibody; p70-alpha antibody; p70-S6K 1 antibody; p70-S6K antibody; P70S6K antibody; P70S6K1 antibody; p70S6Kb antibody; PS6K antibody; Ribosomal protein S6 kinase 70kDa polypeptide 1 antibody; Ribosomal protein S6 kinase beta 1 antibody; Ribosomal protein S6 kinase beta-1 antibody; Ribosomal protein S6 kinase I antibody; RPS6KB1 antibody; S6K antibody; S6K-beta-1 antibody; S6K1 antibody; Serine/threonine kinase 14 alpha antibody; Serine/threonine-protein kinase 14A antibody; STK14A antibody; anti-MANSC4 antibody

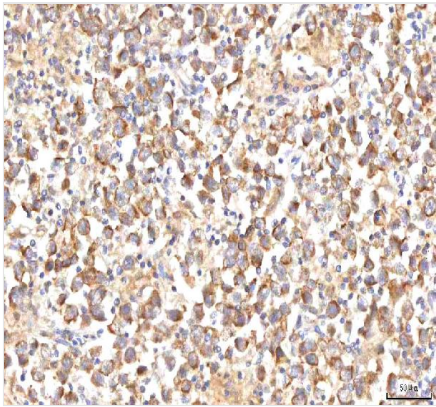
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Expressed in all tissues.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-MANSC4 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human MANSC4 recombinant protein (Position: R36-R140). Human MANSC4 shares 83% amino acid (aa) sequence identity with mouse MANSC4.
Subcellular Localization	Cytoplasm, 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	Downstream effector of TOR signaling pathway involved in osmotic stress response. Could be involved in the control of plant growth and development. Phosphorylates the ribosomal proteins P14, P16 and S6. Functions as a repressor of cell proliferation and required for maintenance of chromosome stability and ploidy levels through the RBR1-E2F pathway.
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.



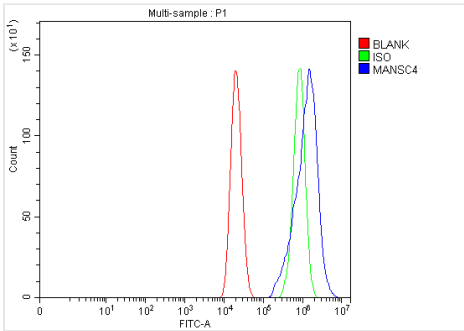
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of PC-3 cells using anti-MANSC4 antibody (AAA127929).Overlay histogram showing PC-3 cells stained with AAA127929 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-MANSC4 Antibody (AAA127929, 1ug/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 (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



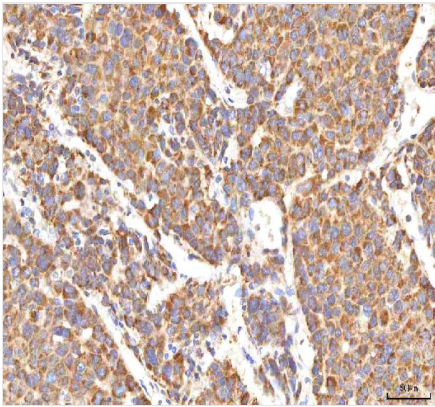
IHC (Immunohistochemisry)

Figure 3. IHC analysis of MANSC4 using anti-MANSC4 antibody (AAA127929).MANSC4 was detected in a paraffin-embedded section of human testicular seminoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MANSC4 Antibody (AAA127929) 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 with DAB as the chromogen.



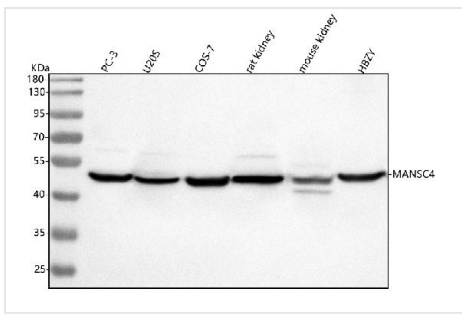
FCM/FACS (Flow Cytometry)

Figure 4. Flow Cytometry analysis of Caco-2 cells using anti-MANSC4 antibody (AAA127929).Overlay histogram showing Caco-2 cells stained with AAA127929 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-MANSC4 Antibody (AAA127929, 1ug/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 (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohiostchemistry)

Figure 2. IHC analysis of MANSC4 using anti-MANSC4 antibody (AAA127929).MANSC4 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-MANSC4 Antibody (AAA127929) 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 with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of MANSC4 using anti-MANSC4 antibody (AAA127929). 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 PC-3 whole cell lysates, Lane 2: human U2OS whole cell lysates, Lane 3: monkey COS-7 whole cell lysates, Lane 4: rat kidney tissue lysates, Lane 5: mouse kidney tissue lysates, Lane 6: mouse HBZY 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-MANSC4 antigen affinity purified polyclonal antibody (#AAA127929) 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 MANSC4 at approximately 45 kDa. The expected band size for MANSC4 is at 38 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-MANSC4 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-MANSC4 antibody	Primary Antibodies; Signal Transduction; Signaling Pathway; Small G Proteins
References	1. Scherer, S. E. , Muzny, D. M. , Buhay, C. J. , Chen, R. , Cree, A. , & Ding, Y. , et al. (2006). The finished dna sequence of human chromosome 12. Nature.2. (2020). Bcar1 promotes proliferation and cell growth in lung adenocarcinoma via upregulation of polr2a. Thoracic Cancer.3. Tengfei, X. , Wei, L. , Xiaoqing, W. , Han, X. , Jixin, Y. , & Qiu, W. , et al. (2018). Estrogen-regulated feedback loop limits the efficacy of estrogen receptor-targeted breast cancer therapy. Proceedings of the National Academy of ences, 115, 201722617.

NCBI AND UNIPROT INFORMATION

NCBI GI #	226246648
NCBI GeneID	100287284
NCBI Accession #	NP_001139693.1
NCBI GenBank Nucleotide #	NM_001146221.2
UniProt Accession #	A6NHS7
Molecular Weight	37,879 Da
NCBI Official Full Name	MANSC domain-containing protein 4
NCBI Official Synonym Full Names	MANSC domain containing 4
NCBI Official Symbol	MANSC4
NCBI Protein Information	MANSC domain-containing protein 4
UniProt Protein Name	MANSC domain-containing protein 4

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://www.aaabiotech.com/polyclonal/mansc4-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/127929>