

Mouse PC4/SUB1 Monoclonal Antibody | anti-SUB1 antibody

Anti-PC4/SUB1 Antibody Picoband (monoclonal, 8D9D1)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19702	Mouse	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PC4/SUB1; Monoclonal Antibody; Anti-PC4/SUB1 Antibody Picoband (monoclonal; 8D9D1); anti-SUB1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Number	8D9D1
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 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-SUB1 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.25-0.5 ug/ml, Human, Mouse, Rat IHC-P: 2-5 ug/ml, Human, Mouse, Rat IF: 5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Mouse IgG for Western blot, and HRP Conjugated anti-Mouse IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	E Coli-derived human PC4/SUB1 recombinant protein (Position: N62-L127).
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.



IF (Immunofluorescence)

Figure 13. IF analysis of PC4/SUB1 using anti-PC4/SUB1 antibody (AAA19702).PC4/SUB1 was detected in a paraffin-embedded section of human intestine 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 5 ug/mL mouse anti-PC4/SUB1 Antibody (AAA19702) overnight at 4 degree C. Cy3 Conjugated Goat Anti-Mouse IgG (BA1031) was used as secondary antibody at 1:100 dilution and incubated for 30 minutes at 37 degree C. The tissue section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



FCM (Flow Cytometry)

Figure 12. Flow Cytometry analysis of HepG2 cells using anti-PC4/SUB1 antibody (AAA19702).Overlay histogram showing HepG2 cells stained with AAA19702 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with mouse anti-PC4/SUB1 Antibody (AAA19702, 1 ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-mouse IgG (BA1126, 5-10 ug/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was mouse IgG (1 ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 11. IHC analysis of PC4/SUB1 using anti-PC4/SUB1 antibody (AAA19702).PC4/SUB1 was detected in a paraffin-embedded section of rat liver 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 2 ug/ml mouse anti-PC4/SUB1 Antibody (AAA19702) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 10. IHC analysis of PC4/SUB1 using anti-PC4/SUB1 antibody (AAA19702).PC4/SUB1 was detected in a paraffin-embedded section of mouse liver 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 2 ug/ml mouse anti-PC4/SUB1 Antibody (AAA19702) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 9. IHC analysis of PC4/SUB1 using anti-PC4/SUB1 antibody (AAA19702).PC4/SUB1 was detected in a paraffin-embedded section of human spleen 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 2 ug/ml mouse anti-PC4/SUB1 Antibody (AAA19702) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 8. IHC analysis of PC4/SUB1 using anti-PC4/SUB1 antibody (AAA19702).PC4/SUB1 was detected in a paraffin-embedded section of human lung adenocarcinoma 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 2 ug/ml mouse anti-PC4/SUB1 Antibody (AAA19702) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.

ADDITIONAL INFORMATION

Related Product Information for anti-SUB1 antibody	Activated RNA polymerase II transcriptional coactivator p15, also known as positive cofactor 4 (PC4) or SUB1 homolog, is a protein that in humans is encoded by the SUB1 gene. This gene is mapped to 5p13.3. The transcriptional cofactor PC4 is an ancient single-strand DNA (ssDNA)-binding protein that has a homologue in bacteriophage T5 where it is likely the elusive replicative ssDNA-binding protein. The recombinant PC4 is shown to function identically to the native protein through its interaction with TAFs.
Product Categories/Family for anti-SUB1 antibody	Primary Antibodies, Mouse Monoclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	1709514
NCBI GeneID	10923
UniProt Accession #	P53999; Q96L29
Molecular Weight	127

NCBI Official Full Name	Activated RNA polymerase II transcriptional coactivator p15
NCBI Official Synonym Full Names	SUB1 homolog (S. cerevisiae)
NCBI Official Symbol	SUB1
NCBI Official Synonym Symbols	P15; PC4; p14
NCBI Protein Information	activated RNA polymerase II transcriptional coactivator p15; positive cofactor 4; activated RNA polymerase II transcription cofactor 4
UniProt Protein Name	Activated RNA polymerase II transcriptional coactivator p15
UniProt Gene Name	SUB1
UniProt Synonym Gene Names	PC4; RPO2TC1; PC4
UniProt Entry Name	TCP4_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/monoclonal/pc4-sub1-antibody-clone-8d9d1-flow-cytometry-immunofluorescence-immunohistochemistry-western-blot-elisa/19702>