

Rabbit PI-16/PI16 Polyclonal Antibody | anti-PI16 antibody

Anti-PI-16/PI16 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19330	Rabbit	Human, Mouse, Rat, Monkey	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

PI-16/PI16; Polyclonal Antibody; Anti-PI-16/PI16 Antibody; PI16; CRISP9; PSPBP; PSEC0164; UNQ289/PRO328; Peptidase inhibitor 16; PI-16; Cysteine-rich secretory protein 9; CRISP-9; PSP94-binding protein; CD antigen CD364; peptidase inhibitor 16; anti-PI16 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PI-16/PI16 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-PI16 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human, Mouse, Rat, Monkey IHC-P: 2-5ug/ml Human, Mouse, Rat FC/FACS/FCM: 1-3ug/1x106 cells Human, Mouse Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human PI-16/PI16 recombinant protein (Position: L28-L363).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM (Flow Cytometry)

Figure 8. Flow Cytometry analysis of HEPA1-6 cells using anti-PI-16/PI16 antibody (AAA19330). Overlay histogram showing HEPA1-6 cells stained with AAA19330 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PI-16/PI16 Antibody (AAA19330, 1µg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10µg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of A431 cells using anti-PI-16/PI16 antibody (AAA19330). Overlay histogram showing A431 cells stained with AAA19330 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PI-16/PI16 Antibody (AAA19330, 1µg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10µg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



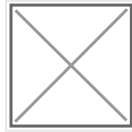
IHC (Immunohistochemistry)

Figure 6. IHC analysis of PI-16/PI16 using anti-PI-16/PI16 antibody (AAA19330). PI-16/PI16 was detected in paraffin-embedded section of human testicular cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-PI-16/PI16 Antibody (AAA19330) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



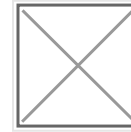
IHC (Immunohistochemistry)

Figure 5. IHC analysis of PI-16/PI16 using anti-PI-16/PI16 antibody (AAA19330). PI-16/PI16 was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-PI-16/PI16 Antibody (AAA19330) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 4. IHC analysis of PI-16/PI16 using anti-PI-16/PI16 antibody (AAA19330). PI-16/PI16 was detected in paraffin-embedded section of human bladder cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-PI-16/PI16 Antibody (AAA19330) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 3. IHC analysis of PI-16/PI16 using anti-PI-16/PI16 antibody (AAA19330). PI-16/PI16 was detected in paraffin-embedded section of rat intestine tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-PI-16/PI16 Antibody (AAA19330) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-PI16 antibody	Peptidase inhibitor 16 is a protein that in humans is encoded by the PI16 gene. PI16 (Peptidase Inhibitor 16) is a variable molecular weight (MW) member of the CRISP family of proteins. It is expressed by cardiomyocytes and serves as an autocrine negative growth regulator.
References	1. Eeles, R. A., Kote-Jarai, Z., Giles, G. G., Al Olama, A. A., Guy, M., Jugurnauth, S. K., Mulholland, S., Leongamornlert, D. A., Edwards, S. M., Morrison, J., Field, H. I., Southey, M. C., and 37 others. Multiple newly identified loci associated with prostate cancer susceptibility. <i>Nature Genet.</i> 40: 316-321, 2008. 2. Buckland, P. R., Hoogendoorn, B., Coleman, S. L., Guy, C. A., Smith, S. K., O'Donovan, M. C. Strong bias in the location of functional promoter polymorphisms. <i>Hum. Mutat.</i> 26: 214-223, 2005. 3. Lou, H., Yeager, M., Li, H., Bosquet, J. G., Hayes, R. B., Orr, N., Yu, K., Hutchinson, A., Jacobs, K. B., Kraft, P., Wacholder, S., Chatterjee, N., and 24 others. Fine mapping and functional analysis of a common variant in MSMB on chromosome 10q11. 2 associated with prostate cancer susceptibility. <i>Proc. Nat. Acad. Sci.</i> 106: 7933-7938, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	312434019
NCBI GeneID	221476
NCBI Accession #	NP_001186088.1
NCBI GenBank Nucleotide #	NM_001199159.1
UniProt Accession #	Q6UXB8; Q6ZVG9; Q8IYL8; Q8NBK0; Q8TCB8
Molecular Weight	29,674 Da
NCBI Official Full Name	peptidase inhibitor 16
NCBI Official Synonym Full Names	peptidase inhibitor 16
NCBI Official Symbol	PI16
NCBI Official Synonym Symbols	PSPBP; CRISP9; MSMBBP

NCBI Protein Information	peptidase inhibitor 16; PSP94-binding protein; cysteine-rich secretory protein 9; microseminoprotein, beta-binding protein; protease inhibitor 16
UniProt Protein Name	Peptidase inhibitor 16
UniProt Gene Name	PI16
UniProt Synonym Gene Names	CRISP9; PSPBP; PI-16; CRISP-9
UniProt Entry Name	PI16_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/pi-16-pi16-antibody-western-blot-immunohistochemistry-flow-cytometry-direct-elisa-elisa/19330>