

Rabbit anti-Human SPATA18 Polyclonal Antibody | anti-SPATA18 antibody

Anti-SPATA18 Antibody Picoband

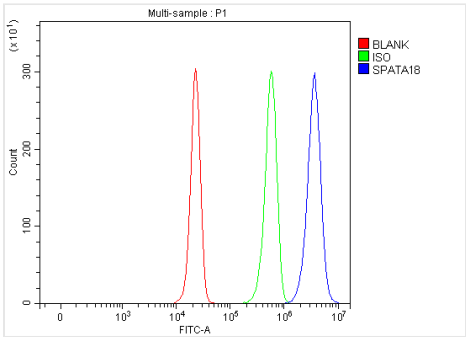
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127618	Rabbit	Human	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

SPATA18; Polyclonal Antibody; Anti-SPATA18 Antibody Picoband; interleukin 36; alpha; Interleukin-36 alpha; FIL1 epsilon; Interleukin-1 epsilon; IL-1 epsilon; Interleukin-1 family member 6; IL-1F6; IL36A; FIL1E; IL1E; IL1F6; anti-SPATA18 antibody

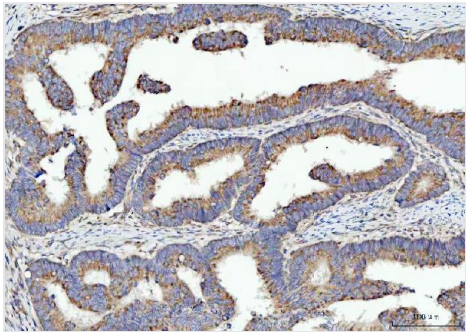
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Expressed in immune system and fetal brain, but not in other tissues tested or in multiple hematopoietic cell lines. Predominantly expressed in skin keratinocytes but not in fibroblasts, endothelial cells or melanocytes. Increased in lesional psoriasis skin.
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-SPATA18 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA
Immunogen	E coli-derived human SPATA18 recombinant protein (Position: E27-R490).
Subcellular Localization	Secreted
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	Cytokine that binds to and signals through the IL1RL2/IL-36R receptor which in turn activates NF-kappa-B and MAPK signaling pathways in target cells linked to a pro-inflammatory response. Part of the IL-36 signaling system that is thought to be present in epithelial barriers and to take part in local inflammatory response; similar to the IL-1 system with which it shares the coreceptor IL1RAP. Seems to be involved in skin inflammatory response by acting on keratinocytes, dendritic cells and inly on T-cells to drive tissue infiltration, cell maturation and cell proliferation. In cultured keratinocytes induces the expression of macrophage, T-cell, and neutrophil chemokines, such as CCL3, CCL4, CCL5, CCL2, CCL17, CCL22, CL20, CCL5, CCL2, CCL17, CCL22, CXCL8, CCL20 and CXCL1, and the production of proinflammatory cytokines such as TNF-alpha, IL-8 and IL-6. In cultured monocytes upregulates expression of IL-1A, IL-1B and IL-6. In myeloid dendritic cells involved in cell maturation by upregulating surface expression of CD83, CD86 and HLA-DR. In monocyte-derived dendritic cells facilitates dendritic cell maturation and drives T-cell proliferation. May play a role in proinflammatory effects in the lung.
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.



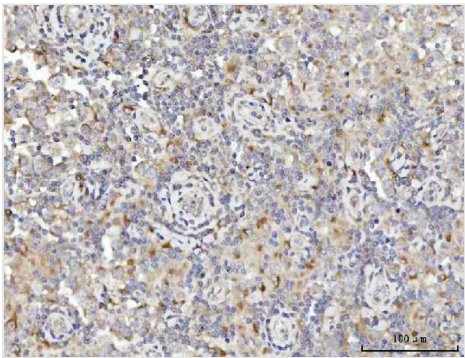
FCM/FACS (Flow Cytometry)

Figure 5. Flow Cytometry analysis of HepG2 cells using anti-SPATA18 antibody (AAA127618).Overlay histogram showing HepG2 cells stained with AAA127618 (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-SPATA18 Antibody (AAA127618, 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 without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



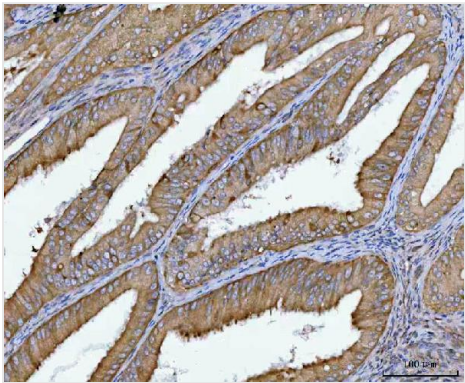
IHC (Immunohistochemistry)

Figure 3. IHC analysis of SPATA18 using anti-SPATA18 antibody (AAA127618).SPATA18 was detected in a paraffin-embedded section of human rectum 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 2ug/ml rabbit anti-SPATA18 Antibody (AAA127618) 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.



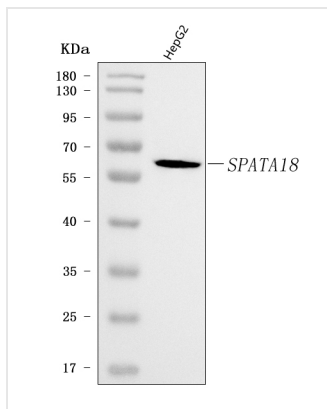
IHC (Immunohistochemistry)

Figure 4. IHC analysis of SPATA18 using anti-SPATA18 antibody (AAA127618).SPATA18 was detected in a paraffin-embedded section of human testicular germ cell tumor 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-SPATA18 Antibody (AAA127618) 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.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of SPATA18 using anti-SPATA18 antibody (AAA127618).SPATA18 was detected in a paraffin-embedded section of human endometrial carcinoma 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-SPATA18 Antibody (AAA127618) 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 SPATA18 using anti-SPATA18 antibody (AAA127618). 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 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-SPATA18 antigen affinity purified polyclonal antibody (#AAA127618) 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 SPATA18 at approximately 61 kDa. The expected band size for SPATA18 is at 61 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-SPATA18 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-SPATA18 antibody	Primary Antibodies ; Cytokines ; Immunology ; Innate Immunity ; Interleukins
References	1. Bornstein, C., Brosh, R., Molchadsky, A., Madar, S., Kogan-Sakin, I., Goldstein, I., Chakravarti, D., Flores, E. R., Goldfinger, N., Sarig, R., Rotter, V. SPATA18, a spermatogenesis-associated gene, is a novel transcriptional target of p53 and p63. <i>Molec. Cell. Biol.</i> 31: 1679-1689, 2011. 2. Iida, H., Ichinose, J., Kaneko, T., Mori, T., Shibata, Y. Complementary DNA cloning of rat Spetex-1, a spermatid-expressing gene-1, encoding a 63 kDa cytoplasmic protein of elongate spermatids. <i>Molec. Reprod. Dev.</i> 68: 385-393, 2004. 3. Kaandl, A. M., Jakubiczka, S., Lucke, T., Bartsch, O., Weis, J., Stoltenburg-Diding, G., Aksu, F., Oexle, K., Koehler, K., Huebner, A. Homozygous microdeletion of chromosome 4q11-q12 causes severe limb-girdle muscular dystrophy type 2E with joint hyperlaxity and contractures. (Abstract) <i>Hum. Mutat.</i> 26: 279-280, 2005. Note: Full article online.

NCBI AND UNIPROT INFORMATION

NCBI GI #	21687119
NCBI GeneID	132671
NCBI Accession #	NP_660306
NCBI GenBank Nucleotide #	NM_145263.3
UniProt Accession #	Q8TC71 ; Q8IY48 ; Q8N7D7 ; B4E2R0 ; E5RLK1
Molecular Weight	57,485 Da
NCBI Official Full Name	mitochondria-eating protein isoform 1
NCBI Official Synonym Full Names	spermatogenesis associated 18
NCBI Official Symbol	SPATA18

NCBI Official Synonym Symbols	Mieap; SPETEX1
NCBI Protein Information	mitochondria-eating protein; spermatogenesis associated 18 homolog; spermatogenesis-associated protein 18
UniProt Protein Name	Mitochondria-eating protein
UniProt Gene Name	SPATA18
UniProt Synonym Gene Names	MIEAP
UniProt Entry Name	MIEAP_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://www.aaabiotech.com/polyclonal/spata18-antibody-western-blot-immunohistochemistry-flow-cytometry-elisa/127618>