

Rabbit anti-Human, Mouse AZI1 Polyclonal Antibody | anti-AZI1 antibody

AZI1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324375	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

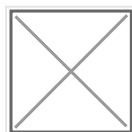
PRODUCT SYNONYMS

AZI1; Polyclonal Antibody; AZI1 Antibody; 5 azacytidine induced 1; 5-azacytidine-induced protein 1; AZ1; Azi; Azi1; AZI1_HUMAN; Centrosomal protein 131 kDa; Centrosomal protein of 131 kDa; Cep131; KIAA1118; OTTMUSP00000004498; Pre-acrosome localization protein 1; RP23 37J21.1; anti-AZI1 antibody

PRODUCT SPECIFICATIONS

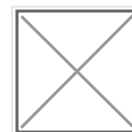
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	AZI1 antibody detects endogenous levels of total AZI1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1044
Applicable Applications for anti-AZI1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm > Cytoskeleton > Centrosome.
Tissue Specificity	Up-regulated by the transcription factor SP1.
Predicted Cross Reactivity	Zebrafish, Bovine, Horse, Sheep, Dog
Similarity	Zebrafish (91%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA324375 at 1/100 staining Human cervical cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from HUVEC cells, using AZI1 antibody.



IF (Immunofluorescence)

AAA324375 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-AZI1 antibody	<p>Function: Component of centriolar satellites contributing to the building of a complex and dynamic network required to regulate cilia/flagellum formation (PubMed:17954613, PubMed:24185901). In proliferating cells, MIB1-mediated ubiquitination induces its sequestration within centriolar satellites, precluding untimely cilia formation initiation (PubMed:24121310). In contrast, during normal and ultraviolet or heat shock cellular stress-induced ciliogenesis, its non-ubiquitinated form is rapidly displaced from centriolar satellites and recruited to centrosome/basal bodies in a microtubule- and p38 MAPK-dependent manner (PubMed:24121310, PubMed:26616734). Acts also as a negative regulator of BBSome ciliary trafficking (PubMed:24550735). Plays a role in sperm flagellar formation; may be involved in the regulation of intraflagellar transport (IFT) and/or intramanchette (IMT) trafficking, which are important for axoneme extension and/or cargo delivery to the nascent sperm tail (By similarity). Required for optimal cell proliferation and cell cycle progression; may play a role in the regulation of genome stability in non-ciliogenic cells (PubMed:22797915, PubMed:26297806). Involved in centriole duplication (By similarity). Required for CEP152, WDR62 and CEP63 centrosomal localization and promotes the centrosomal localization of CDK2 (PubMed:26297806).</p> <p>Subunit Structure: Self-associates. Associates with the centriolar satellite BBSome protein complex. Interacts with BBS4; the interaction limits BBS4 availability for association with the BBSome complex, and hence negatively regulates ciliary localization of the BBSome complex (PubMed:24550735). Interacts with MIB1 (PubMed:24121310). Interacts with PCM1; the interaction increases in response to ultraviolet light (UV) radiation (PubMed:22797915, PubMed:24121310). Associates with microtubules; association with microtubules is reduced in response to cellular stress, such as UV stimulation, in a process that requires p38 MAP kinase signaling (PubMed:24121310). Interacts with CEP290, DCTN1, PCNT, PCM1 and CEP152. Interacts with 14-3-3 proteins following UV-induced phosphorylation by MAPKAPK2; this inhibits formation of novel centriolar satellites (PubMed:26616734).</p> <p>Post-translational Modifications: Ubiquitinated. Undergoes monoubiquitination catalyzed by the E3 ubiquitin-protein ligase MIB1 in proliferating cells, preventing cilia formation. Monoubiquitination by MIB1 is inhibited in response to cellular stress, such as ultraviolet light (UV) radiation or heat shock, resulting in cilia formation initiation. MAPKAPK2-dependent phosphorylation at Ser-47 and Ser-78 occurs in response to cellular stress such as exposure to ultraviolet irradiation and promotes binding to 14-3-3 proteins which leads to cytoplasmic sequestration of CEP131 and blocks formation of new centriolar satellites.</p> <p>Similarity: Belongs to the CEP131 family.</p>
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NCBI AND UNIPROT INFORMATION

NCBI GI #	111955162
NCBI GeneID	22994
NCBI Accession #	NP_001009811.2
NCBI GenBank Nucleotide #	NM_001009811.3
UniProt Accession #	Q9UPN4; Q96F50; A6NHI8; B2RN11
Molecular Weight	Observed: 130 kD Predicted: 123 kDa
NCBI Official Full Name	centrosomal protein of 131 kDa isoform b
NCBI Official Synonym Full Names	centrosomal protein 131
NCBI Official Symbol	CEP131
NCBI Official Synonym Symbols	AZ1; ZA1; AZI1

NCBI Protein Information	centrosomal protein of 131 kDa
UniProt Protein Name	Centrosomal protein of 131 kDa
UniProt Gene Name	CEP131
UniProt Synonym Gene Names	AZI1; KIAA1118

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/azi1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/324375>