

PITX3 recombinant antibody

PITX3 Recombinant Monoclonal Antibody

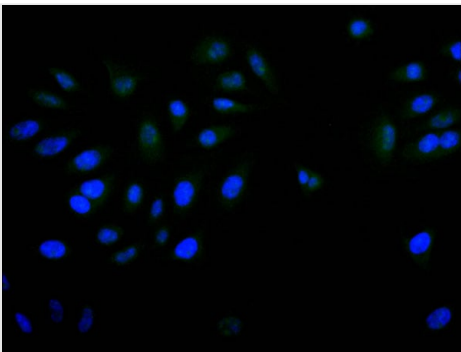
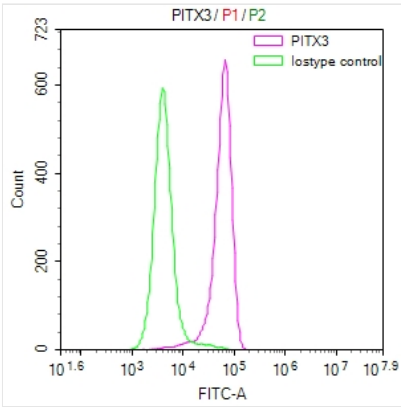
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA279114	HEK293F Cell	Human	Flow Cytometry, Functional Assay, Immunofluorescence, ELISA

PRODUCT SYNONYMS

PITX3; Monoclonal Recombinant Antibody; PITX3 Recombinant Monoclonal Antibody; Pituitary homeobox 3 (Homeobox protein PITX3)(Paired-like homeodomain transcription factor 3); PTX3; PITX3 recombinant antibody

PRODUCT SPECIFICATIONS

Host	HEK293F Cell
Reactivity	Human
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Number	28A9
Purity/Purification	Affinity-chromatography
Form/Format	Liquid; PBS, 150mM NaCl, 0.02% sodium azide, 50% glycerol, pH 7.4.
Applicable Applications for PITX3 recombinant antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ELISA
Immunogen Species	Human
Immunogen	A synthesized peptide derived from Human PITX3
Conjugate	Non-conjugated
Research Area	Epigenetics and Nuclear Signaling; Neuroscience
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.



IF (Immunofluorescence)
Immunofluorescence staining of A549 with AAA279114 at 1:20, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4 degrees C. The secondary antibody was Alexa Fluor 520-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

FCM/FACS (Flow Cytometry)
Overlay Peak curve showing SH-SY5Y cells stained with AAA279114 (red line) at 1:50. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100. Then 10% normal goat serum to block non-specific protein-protein interactions followed by the antibody (1ug/1*10⁶cells) for 45min at 4?. The secondary antibody used was FITC-conjugated Goat Anti-rabbit IgG(H+L) at 1:200 dilution for 35min at 4?.Control antibody (green line) was rabbit IgG (1ug/1*10⁶cells) used under the same conditions. Acquisition of >10,000 events was performed.

ADDITIONAL INFORMATION

Related Product Information for PITX3 recombinant antibody

The PITX3 recombinant monoclonal antibody is synthesized through in vitro expression systems that involve cloning the DNA sequences of PITX3 antibodies from immunoreactive rabbits. The immunogen used is a synthesized peptide derived from the human PITX3 protein. Following this, the genes encoding the PITX3 antibodies are incorporated into plasmid vectors, and these recombinant plasmid vectors are transfected into host cells to enable antibody expression. Upon expression, the PITX3 recombinant monoclonal antibody undergoes purification through affinity chromatography. Rigorous testing in ELISA, IF, and FC applications confirms the antibody's reactivity with the human PITX3 protein.

The main role of the PITX3 protein is to function as a transcription factor that regulates the development and maintenance of various components of the eye, including the lens, cornea, and ciliary body. Its proper functioning is essential for normal eye development and vision, and mutations in the PITX3 gene can lead to congenital cataracts and other eye-related disorders.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4826912
NCBI GeneID	5309
NCBI Accession #	NP_005020.1
NCBI GenBank Nucleotide #	NM_005029.3
UniProt Accession #	O75364; Q5VZL2
Molecular Weight	31,832 Da
NCBI Official Full Name	pituitary homeobox 3
NCBI Official Synonym Full Names	paired-like homeodomain 3
NCBI Official Symbol	PITX3
NCBI Official Synonym Symbols	ASMD; ASOD; PTX3; CTPP4; CTRCT11
NCBI Protein Information	pituitary homeobox 3; homeobox protein PITX3
UniProt Protein Name	Pituitary homeobox 3

UniProt Gene Name	PITX3
UniProt Synonym Gene Names	PTX3
UniProt Entry Name	PITX3_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/pitx3-recombinant-antibody-clone-28a9-flow-cytometry-immunofluorescence-elisa/279114>