

Rabbit anti-Human PIWIL4 Polyclonal Antibody | anti-PIWIL4 antibody

PIWIL4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA233733	Rabbit	Human	Immunofluorescence, Western Blot, ELISA

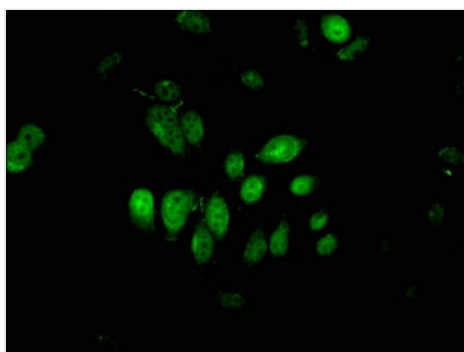
PRODUCT SYNONYMS

PIWIL4; Polyclonal Antibody; PIWIL4 Antibody; Piwi-like protein 4; HIWI2; PIWI; anti-PIWIL4 antibody

PRODUCT SPECIFICATIONS

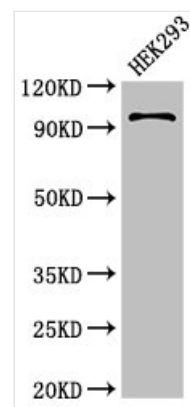
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	852
Applicable Applications for anti-PIWIL4 antibody	IF (Immunofluorescence), WB (Western Blot), ELISA
Immunogen	Recombinant Human Piwi-like protein 4 protein (12-235AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



IF (Immunofluorescence)

Immunofluorescent analysis of A549 cells using AAA233733 at a dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)



WB (Western Blot)

Western BlotPositive WB detected in: HEK293 whole cell lysateAll lanes: PIWIL4 antibody at 3.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 97, 57, 53 KDaObserved band size: 97 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-PIWIL4 antibody	Plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Directly binds piRNAs, a class of 24 to 30 nucleotide RNAs that are generated by a Dicer-independent mechanism and are primarily derived from transposons and other repeated sequence elements. Associates with secondary piRNAs antisense and PIWIL2/MILI is required for such association. The piRNA process acts upstream of known mediators of DNA methylation. Participates in a piRNA amplification loop. Besides their function in transposable elements repression, piRNAs are probably involved in other processes during meiosis such as translation regulation (By similarity). May be involved in the chromatin-modifying pathway by inducing 'Lys-9' methylation of histone H3 at some loci (PubMed:12906857).
Product Categories/Family for anti-PIWIL4 antibody	Epigenetics and Nuclear Signaling; Developmental Biology; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	221316711
NCBI GeneID	143689
NCBI Accession #	NP_689644.2
NCBI GenBank Nucleotide #	NM_152431.2
UniProt Accession #	Q7Z3Z4; Q68CZ4; Q8N8G9; Q8N9V8; Q8NEH2; B4DEG5
Molecular Weight	52,174 Da
NCBI Official Full Name	piwi-like protein 4
NCBI Official Synonym Full Names	piwi like RNA-mediated gene silencing 4
NCBI Official Symbol	PIWIL4
NCBI Official Synonym Symbols	HIWI2; MIWI2
NCBI Protein Information	piwi-like protein 4
UniProt Protein Name	Piwi-like protein 4
UniProt Gene Name	PIWIL4
UniProt Synonym Gene Names	HIWI2; PIWI

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/piwil4-antibody-immunofluorescence-western-blot-elisa/233733>