ARG45946
anti-PIWIL3 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes PIWIL3
Tested Reactivity	Hu
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	PIWIL3
Species	Human
Immunogen	Recombinant protein containing to human PIWIL3.
Conjugation	Un-conjugated
Alternate Names	Piwi Like RNA-Mediated Gene Silencing 3; PIWIL3; Piwi-like protein 3

Application Instructions

Application table

Application	Dilution
IHC-P	2-5 µg/ml
WB	0.25-0.5 µg/ml

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Observed Size	101 kDa

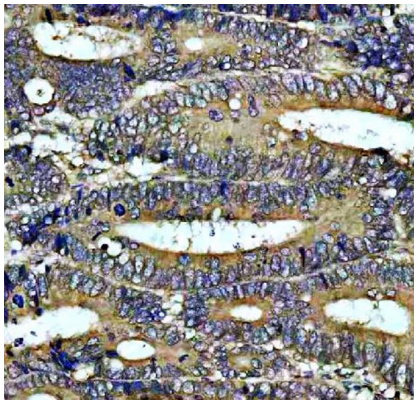
Properties

Form	Liquid
Purification	Affinity chromatography purified
Buffer	0.2% Na2HPO4, 0.9% NaCl and 4% Trehalose.
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -22°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

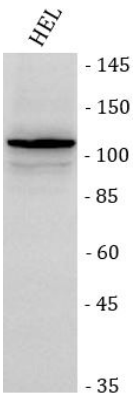
Gene Symbol	PIWIL3
Gene Full Name	Piwi Like RNA-Mediated Gene Silencing 3
Background	This gene encodes a member of the PIWI subfamily of Argonaute family proteins. This subfamily of proteins contains a PAZ domain, found in proteins involved in RNA-mediated gene silencing, and a C-terminal Piwi domain. The encoded protein is thought to function in maintenance of germline cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Function	May play a 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 govern 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. Besides their function in transposable elements repression, piRNAs are probably involved in other processes during meiosis such as translation regulation (By similarity). [UniProt]
Calculated Mw	101 kDa
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG45946 anti-PIWIL3 antibody IHC-P image

Immunohistochemistry: Human colon cancer stained with ARG45946 anti-PIWIL3 antibody at 2 µg/ml dilution.



ARG45946 anti-PIWIL3 antibody WB image

Western blot: HEL stained with ARG45946 anti-PIWIL3 antibody at 0.5 µg/ml dilution.