Product Datasheet

PIWIL4 Antibody

Catalog No: #31113

Package Size: #31113-1 50ul #31113-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	PIWIL4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	ELISA WB
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total PIWIL4 protein.
Immunogen Type	Recombinant protein
Immunogen Description	Fusion protein corresponding to a region derived from 546-838 amino acids of human piwi-like RNA-mediated gene silencing 4
Target Name	PIWIL4
Other Names	Piwi-like RNA-mediated gene silencing 4, HIWI2; MIWI2
Accession No.	Swiss-Prot:Q7Z3Z4Gene ID:143689;
Uniprot	Q7Z3Z4
GeneID	143689;
Concentration	0.4mg/ml
Formulation	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Storage	Store at -20°C/1 year

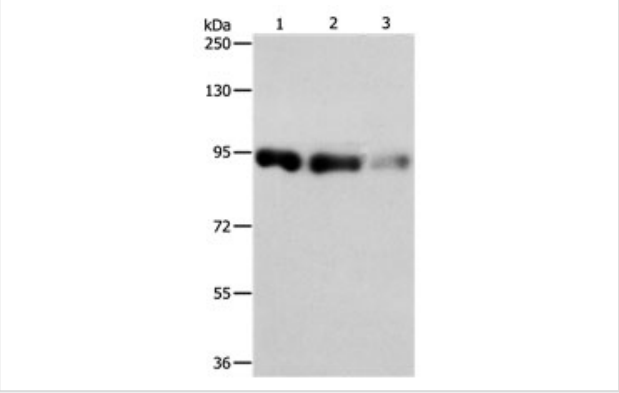
Application Details

Predicted MW: 97kd

ELISA: 1:2000-1:5000

Western blotting: 1:500-1:2000

Images



Gel: 8%SDS-PAGE
Lane1: Hela cell lysate
Lane2: 231 cell lysate
Lane3: 293T cell lysate
Lysates: 40 ug per lane
Primary antibody: 1/550 dilution
Secondary antibody: Goat anti Rabbit IgG - H&L (HRP) at 1/10000 dilution
Exposure time: 10 seconds

Background

PIWIL4 belongs to the Argonaute family of proteins, which function in development and maintenance of germline stem cells. Plays a central role during spermatogenesis by repressing transposable elements and prevent 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. Associates with secondary piRNAs antisense and PIWIL2/MILI is required for such association.

Note: This product is for in vitro research use only