

Product Name: KD-Validated PIWIL1 Recombinant Rabbit Monoclonal Antibody**Catalog #: KVA00910**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 98.6kDa

Antigen Information

Gene Name	PIWIL1
Alternative Names	Piwi Like RNA-Mediated Gene Silencing 1; HIWI; CT80.1; PIWI; Piwi-Like Protein 1; Piwi (Drosophila)-Like 1; Piwi-Like 1 (Drosophila); Piwi Homolog; EC 3.1.26.-; MIWI
Gene ID	9271.0
SwissProt ID	Q96J94
Immunogen	A synthesized peptide derived from human PIWIL1

Background

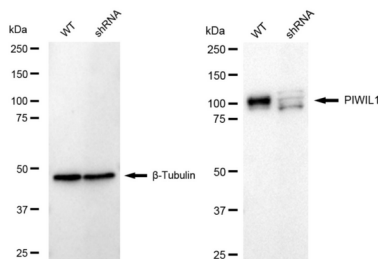
This gene encodes a member of the PIWI subfamily of Argonaute proteins, evolutionarily conserved proteins containing both PAZ and Piwi motifs that play important roles in stem cell self-renewal, RNA silencing, and translational regulation in diverse organisms. The encoded protein may play a role as an intrinsic regulator of the self-renewal capacity of germline and

hematopoietic stem cells. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
[provided by RefSeq, Jul 2010]

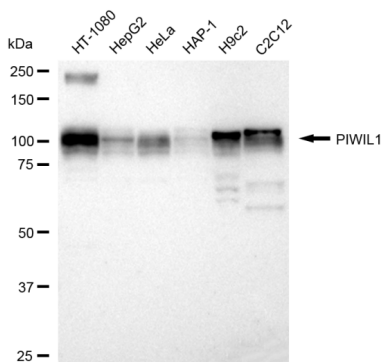
Research Area

Epigenetics and Nuclear Signaling

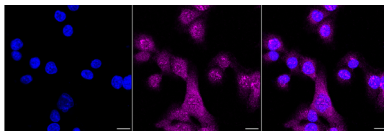
Image Data



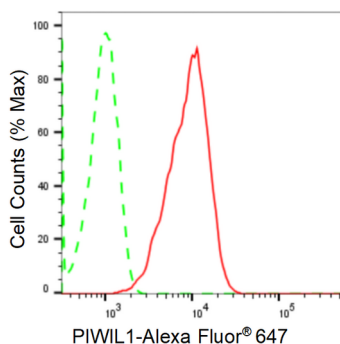
Western blotting analysis using PIWIL1 antibody (KVA00910). PIWIL1 expression in wild type (WT) and PIWIL1 shRNA knockdown (KD) HeLa cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with PIWIL1 antibody (KVA00910, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using PIWIL1 antibody (KVA00910). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PIWIL1 antibody (KVA00910, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with PIWIL1 antibody (KVA00910, 1:1,000). Nuclei were stained blue with DAPI; PIWIL1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 μ m.



Flow cytometric analysis of PIWIL1 expression in HT-1080 cells using PIWIL1 antibody (KVA00910, 1:2,000). Green, isotype control; red, PIWIL1.