

## PIWIL2

**Reactivity:** Human

**Tested applications:** WB IHC

**Recommended Dilution:** WB 1:500 - 1:1000 IHC 1:20 - 1:50

**Calculated MW:** 110kDa

**Observed MW:** Refer to Figures

**Immunogen:**

A synthetic peptide of human PIWIL2

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

CT80; HILI; mili; PIWIL1L

**Catalog #:** A3073

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 55124

**Isotype:** IgG

**Swiss Prot:** Q8TC59

**Purity:** Affinity purification

For research use only.

**Background:**

PIWIL2 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. Plays an essential role in meiotic differentiation of spermatocytes, germ cell differentiation and in self-renewal of spermatogonial stem cells. Its presence in oocytes suggests that it may participate in similar functions during oogenesis in females. Indirectly modulate expression of genes such as PDGFRB, SLC2A1, ITGA6, GJA7, THY1, CD9 and STRA8. Inhibits tumor cell growth when repressed. When overexpressed, acts as an oncogene by inhibition of apoptosis and promotion of proliferation in tumors.

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