

PIWIL1 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 252150

Unit: 0.1 mg

Description:

Piwi-like protein 1 (PIWIL1) plays a central role during spermatogenesis by repressing transposable elements and preventing their mobilization, which is essential for the germline integrity. PIWIL1 plays an essential role in meiotic differentiation of spermatocytes, germ cell differentiation and in self-renewal of spermatogonial stem cells. PIWIL1 acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and PIWI proteins. PIWIL2 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. PIWIL1 is a component of the RISC complex, which mediates RNA cleavage and translational silencing. PIWIL2 also plays a role in the formation of chromatoid bodies and is required for miRNA stability.

Isotype: Rabbit Ig

Applications: E, WB, IHC

Species Reactivity: H, M, R

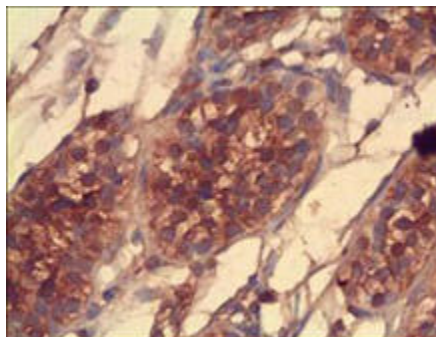
Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4, 0.5% BSA with 0.09% sodium azide. Antibody was purified by immunogen affinity chromatography.

Alternate Names: Piwi-like protein 1; PIWIL1; HIWI

Accession No.: Q96J94

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the center region of human protein.

Application Notes: E: 1:10,000-1:50,000; WB: 1:250-1:1,000; IHC: 1:50-1:200



PIWIL1 staining in human testis. Paraffin-embedded human testis is stained with PIWIL1 Antibody (Cat. No. 252150) used at 1:200 dilution.

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.