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**Research Use Only. Not for
diagnostic or therapeutic use.**

EB06677 - Goat Anti-PIWI / HIWI Antibody

Size: 100µg specific antibody in 200µl



Target Protein

Principal Names: PIWIL1, HIWI, PIWI, piwi-like 1 (Drosophila), piwi (Drosophila)-like 1, homolog of Drosophila piwi, MIWI, piwi homolog; piwi-like 1

Official Symbol: PIWIL1

Accession Number(s): NP_004755.2; NP_001177900.1

Human GeneID(s): [9271](#)

Non-Human GeneID(s): 57749 (mouse)

Important Comments: This antibody is expected to recognise both reported isoforms (NP_004755.2; NP_001177900.1).

Immunogen

Peptide with sequence C-SNRKDKYDAIKKY, from the internal region of the protein sequence according to NP_004755.2; NP_001177900.1.

Please note the [peptide](#) is available for sale.

Purification and Storage

Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

Applications Tested

Peptide ELISA: antibody detection limit dilution 1:64000.

IHC: In paraffin embedded Human Testis shows textured cytoplasm staining in all germ cells. Recommended concentration: 4-6µg/ml.

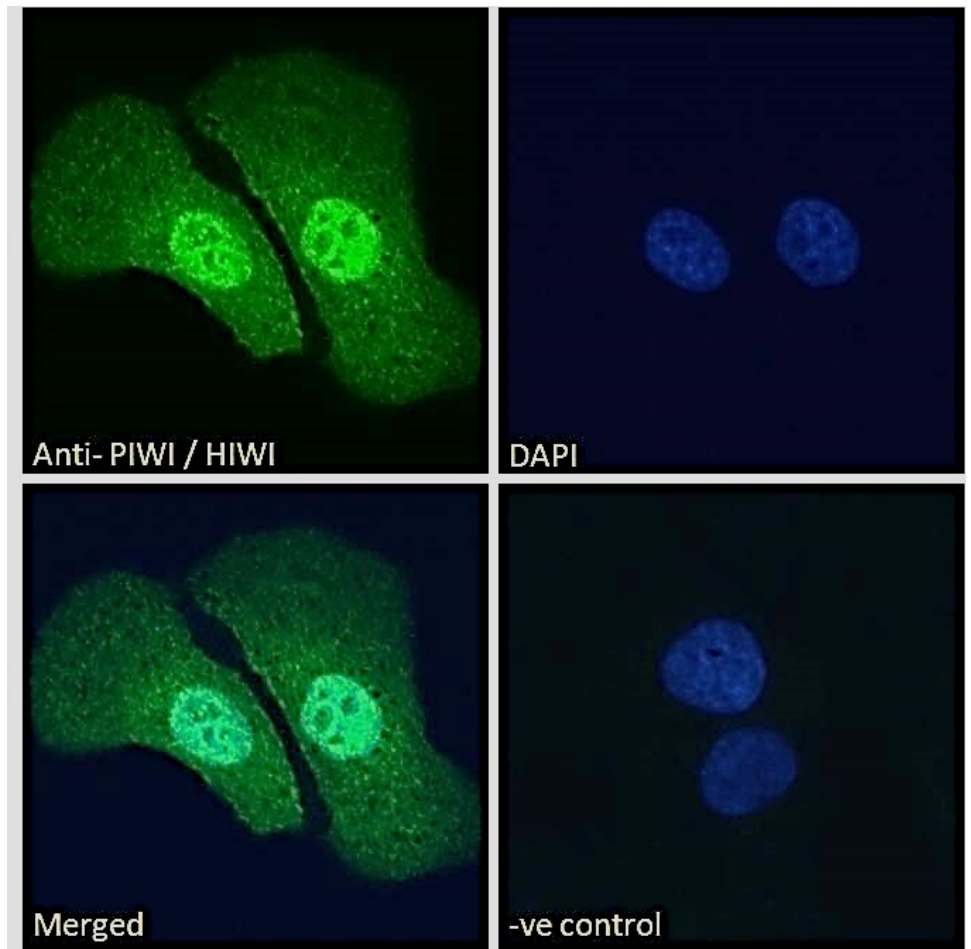
Immunofluorescence: Strong expression of the protein seen in the nuclei and cytoplasm of U2OS and HeLa cells. Recommended concentration: 10µg/ml.

Flow Cytometry: Flow cytometric analysis of HeLa cells. Recommended concentration: 10ug/ml.

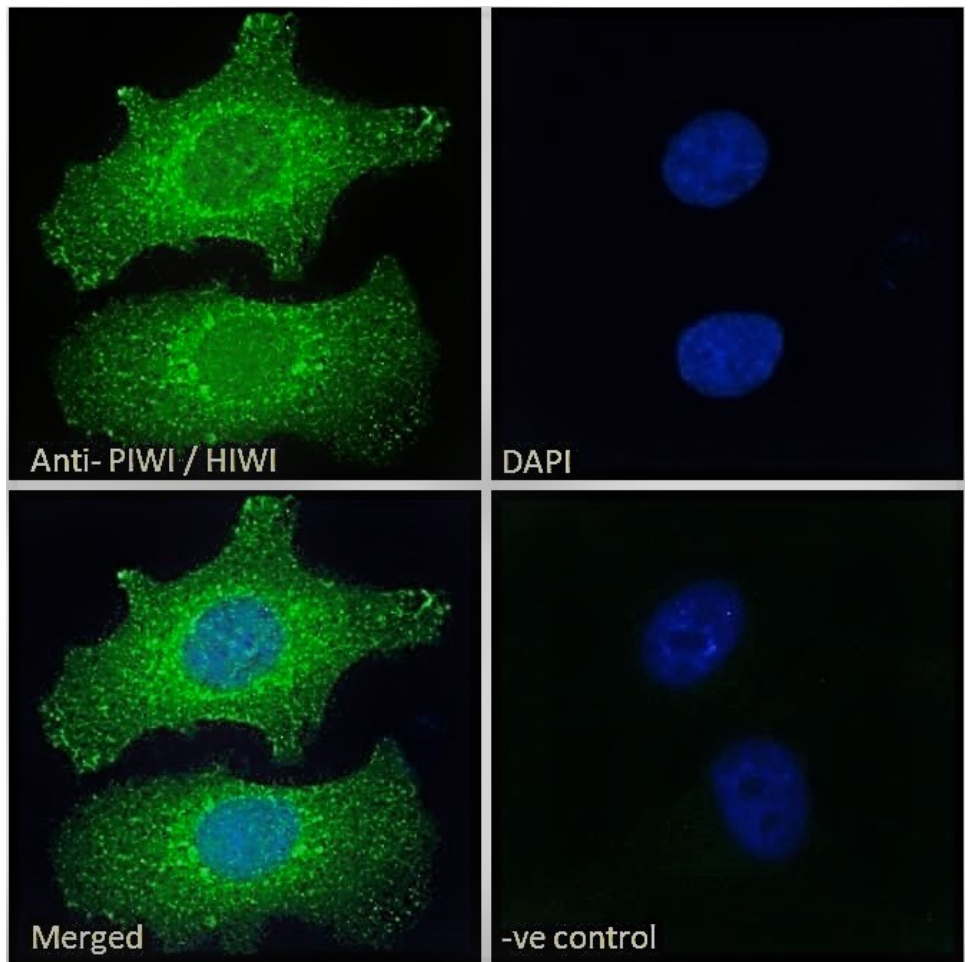
Species Reactivity

Tested: Human

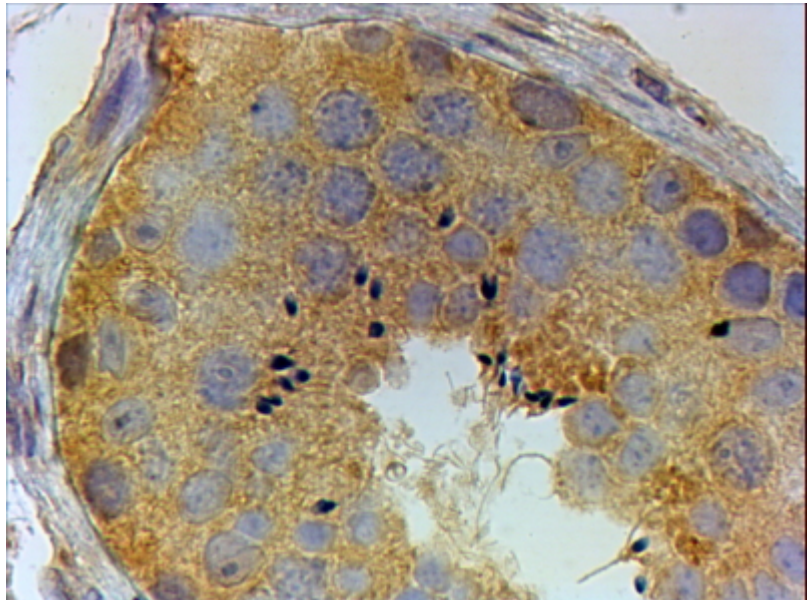
Expected from sequence similarity: Human, Mouse, Rat, Dog, Pig, Cow



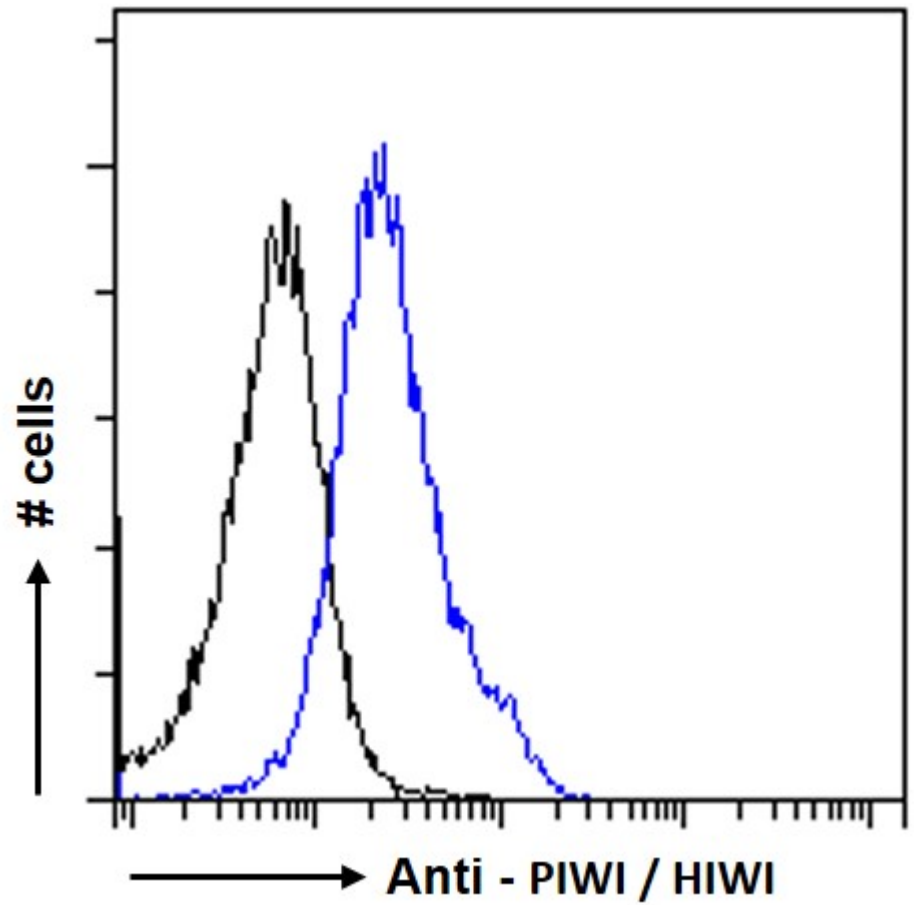
EB06677 Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06677 Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB06677 (4µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, HRP-staining.



EB06677 Flow cytometric analysis of paraformaldehyde fixed HeLa cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.