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Datasheet for ABIN6991609 **anti-PIWIL2 antibody (AA 410-460)**

Overview

Quantity:	0.1 mg
Target:	PIWIL2
Binding Specificity:	AA 410-460
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PIWIL2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	PIWI-L2 antibody was raised against a 17 amino acid synthetic peptide near the center of human PIWI-L2. The immunogen is located within amino acids 410 - 460 of PIWI-L2.
Isotype:	IgG
Specificity:	At least three isoforms of PIWI-L2 are known to exist, this antibody will only detect the two longest isoforms. PIWI-L2 antibody is predicted to not cross-react with other PIWI protein family members.
Purification:	PIWI-L2 Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	PIWIL2
Alternative Name:	PIWI-L2 (PIWIL2 Products)

Target Details

Background:	PIWI-L2 Antibody: PIWI-L2 is a member of the PIWI subfamily of Argonaute proteins, evolutionarily conserved proteins containing both PAZ and Piwi motifs that are crucial for the biogenesis and function of small non-coding RNAs and play important roles in stem cell self-renewal, RNA silencing, and translational regulation in diverse organisms. PIWI-L2 has been implicated in multiple roles including stem cell self-renewal and is highly expressed in many breast cancers. In these tumors, PIWI-L2 silences the expression of STAT3, a regulator of Bcl-XL and cyclin D1, allowing the proliferation and survival of breast cancer stem cells. Recent studies have shown that overexpression of PIWI-like proteins are potential biomarkers for colon and other cancers.
Gene ID:	55124
NCBI Accession:	NP_00129193
UniProt:	Q8TC59
Pathways:	Stem Cell Maintenance

Application Details

Application Notes:	PIWI-L2 antibody can be used for detection of PIWI-L2 by Western blot at 1 µg/mL. Antibody validated: Western Blot in human samples, Immunocytochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PIWI-L2 Antibody is supplied in PBS containing 0.02 % sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C, 4 °C
Storage Comment:	PIWI-L2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should

not be exposed to prolonged high temperatures.