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PIG54 Rabbit pAb

Catalog # AP97845

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q29RF7
Other Accession	Q29RF7
Predicted	Rat, Pig, Human, Mouse, Rabbit, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	150830
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SCC112/PIG54
Epitope Specificity	855-950/1337
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the PDS5 family. Contains 1 HEAT repeat.
SUBUNIT	Interacts with the cohesin complex. Interacts with WAPAL (via FGF motifs) or CDCA5 (via the FGF motif); the interaction is direct, cohesin-dependent and competitive. Interacts with SMC3. Interacts with TP63.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene binds to the cohesin complex and associates with chromatin through most of the cell cycle. The encoded protein may play a role in regulating sister chromatid cohesion during mitosis. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2010]

Additional Information

Gene ID	23244
Other Names	PIG54; SCC-112; SCC112; PDS5A_HUMAN; PDS5A; Cell proliferation-inducing gene 54 protein; Sister chromatid cohesion protein 112 (SCC-112); KIAA0648; PDS5; PDS5 cohesin associated factor A; PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	PDS5A (HGNC:29088)
Function	Probable regulator of sister chromatid cohesion in mitosis which may stabilize cohesin complex association with chromatin. May couple sister chromatid cohesion during mitosis to DNA replication. Cohesion ensures that chromosome partitioning is accurate in both meiotic and mitotic cells and plays an important role in DNA repair.
Cellular Location	Nucleus. Note=Associated with chromatin through most of the cell cycle. Dissociates from chromatin in late prophase, reassociates during late telophase.
Tissue Location	Highest level in colon. Low levels in lung, ovary, breast and kidney. Reduced level in renal tumor tissue. Isoform 2 is expressed in kidney.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.