

## Rabbit Anti-PIG54/Cy5 Conjugated antibody

SL6937R-Cy5

<b>Product Name</b>	Anti-PIG54/Cy5
<b>Chinese Name</b>	Cy5 标记的细胞增殖诱导蛋白 54 抗体
<b>Alias</b>	Cell proliferation inducing protein 54; Cell proliferation-inducing gene 54 protein; KIAA0648; PDS5A; PDS5A_HUMAN; PIG54; SCC-112; Sister chromatid cohesion protein 112; Sister chromatid cohesion protein PDS5 homolog A.
<b>Research Area</b>	Cell biology Signal transduction Cyclin Cell differentiation Epigenetics
<b>Immunogen Species</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>React Species</b>	(predicted:Human,Mouse,Rat,Dog,Pig,Horse,Rabbit,Sheep) IF=1:100-500
<b>Applications</b>	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight</b>	147kDa
<b>Form</b>	Lyophilized or Liquid
<b>Concentration</b>	1mg/ml
<b>immunogen</b>	KLH conjugated synthetic peptide derived from human SCC112/PIG54
<b>Lsotype</b>	IgG
<b>Purification</b>	affinity purified by Protein A
<b>Storage Buffer</b>	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>Storage</b>	
<b>Product Detail</b>	<b>background:</b> 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.

**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.

**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.

**Subcellular Location:**

Nucleus. Associated with chromatin through most of the cell cycle. Dissociates from chromatin in late prophase, reassociates during late telophase.

**Tissue Specificity:**

Highest level in colon. Low levels in lung, ovary, breast and kidney. Reduced level in renal tumor tissue. Isoform 2 is expressed in kidney.

**Similarity:**

Belongs to the PDS5 family.  
Contains 1 HEAT repeat.

**Database links:**

UniProtKB/Swiss-Prot: Q29RF7.1

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.