

**bs-2157R****[ Primary Antibody ]**

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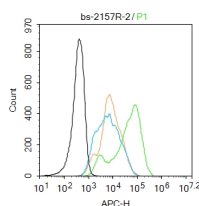
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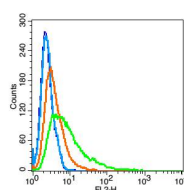
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**Polycystin 1 Rabbit pAb****DATASHEET**

<b>Host:</b> Rabbit <b>Clonality:</b> Polyclonal <b>GeneID:</b> 5310 <b>Target:</b> Polycystin 1 <b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Polycystin 1: 131-230/4303. < Extracellular > <b>Purification:</b> affinity purified by Protein A <b>Concentration:</b> 1mg/ml <b>Storage:</b> 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. <b>Background:</b> This gene encodes a member of the polycystin protein family. The encoded glycoprotein contains a large N-terminal extracellular region, multiple transmembrane domains and a cytoplasmic C-tail. It is an integral membrane protein that functions as a regulator of calcium permeable cation channels and intracellular calcium homeostasis. It is also involved in cell-cell/matrix interactions and may modulate G-protein-coupled signal-transduction pathways. It plays a role in renal tubular development, and mutations in this gene cause autosomal dominant polycystic kidney disease type 1 (ADPKD1). ADPKD1 is characterized by the growth of fluid-filled cysts that replace normal renal tissue and result in end-stage renal failure. Splice variants encoding different isoforms have been noted for this gene. Also, six pseudogenes, closely linked in a known duplicated region on chromosome 16p, have been described. [provided by RefSeq].	<b>Isotype:</b> IgG <b>SWISS:</b> P98161 <b>Applications:</b> Flow-Cyt (1µg/Test) <b>Reactivity:</b> Human (predicted: Mouse)  <b>Predicted MW.:</b> 460 kDa <b>Subcellular Location:</b> Cell membrane
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**VALIDATION IMAGES**

Blank control: SH-SY5Y. Primary Antibody (green line): Rabbit Anti-Polycystin 1 antibody (bs-2157R) Dilution: 2µg /10<sup>6</sup> cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control(blue): HeLa(fixed with 2% paraformaldehyde(10 min)). Primary Antibody:Rabbit Anti-Polycystin 1 antibody(bs-2157R), Dilution: 1µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG(orange), used under the same conditions ); Secondary Antibody: Goat anti-rabbit IgG-PE(white blue), Dilution: 1:200 in 1 X PBS containing 0.5% BSA.

**SELECTED CITATIONS**

- **[IF=6.75]** Ohata, Shinya, et al. "Mechanosensory Genes Pkd1 and Pkd2 Contribute to the Planar Polarization of Brain

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- Ventricular Epithelium." The Journal of Neuroscience 35.31 (2015): 11153-11168. IHC ;="Mouse". 26245976
- **[IF=6.721]** Winokurov N et al. A role for polycystin-1 and polycystin-2 in neural progenitor cell differentiation. Cell Mol Life Sci. 2019 Mar 20. WB,IHC ;Mouse. 30895336
  - **[IF=5.63]** Chiou, Yi-Shiou, et al. "Peracetylated (—)-epigallocatechin-3-gallate (AcEGCG) potently prevents skin carcinogenesis by suppressing the PKD1-dependent signaling pathway in CD34+ skin stem cells and skin tumors." Carcinogenesis 34.6 (2013): 1315-1322. IP ;="Mouse". 23385063
  - **[IF=4.21]** Kito, Yusuke, Chiemi Saigo, and Tamotsu Takeuchi. "Novel Transgenic Mouse Model of Polycystic Kidney Disease." The American Journal of Pathology (2017). WB ;="Mouse". 28666097
  - **[IF=2.79]** Ren, Jian-gang, et al. "Down-regulation of polycystin in lymphatic malformations: Possible role in the proliferation of lymphatic endothelial cells." Human Pathology (2017). IHC ;="Human". 28552828