bs-1159R **[Primary Antibody]**

P-cadherin Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 1001 **SWISS:** P22223

Target: P-cadherin

Immunogen: KLH conjugated synthetic peptide derived from human P-cadherin: 625-725/829. < Cytoplasmic >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 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.

Background:

cell-cell adhesion molecules. Cadherins are responsible for a whole range of processes including development, wound healing, cell-cell signaling, cell growth and differentiation. N-cadherin is found in many locations including cardiac adherins junctions, oral squamous epithelial cells, and breast epithelial cells. Studies have linked N-cadherin to cancer metastasis by showing the aggressive tumor cells had preferentially turned on N-cadherin as opposed to E- or P-cadherin.
Cadherins are calcium dependent cell adhesion proteins. They preferentially interact with themselves in a homophilic manner in connecting cells; cadherins may thus contribute to the sorting of heterogeneous cell types.

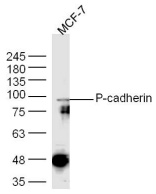
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2μg/Test)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Cow, Chicken, Dog, GuineaPig)

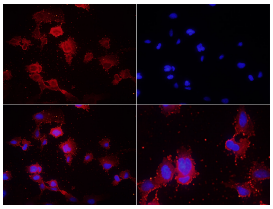
Predicted MW.: 80 kDa

Subcellular Location: Cell membrane

VALIDATION IMAGES



Sample: MCF-7(Human) Cell Lysate at 30 ug Primary: Anti-P-cadherin (bs-1159R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 80 kD Observed band size: 90 kD



Tissue/cell: U251 cells;4% Paraformaldehyde-fixed; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-P-cadherin Polyclonal Antibody, Unconjugated(bs-1159R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

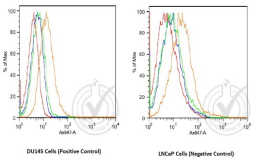
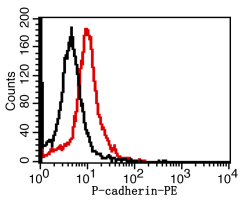


Image provided by Independent Validation (badge 029741). Histogram of human DU145 and human LNCaP cells stained with Rabbit Anti-P-cadherin Polyclonal Antibody (orange)(bs-1159R at 1:100), isotype control antibody (green), secondary antibody only (blue) and unstained (red)



Overlay histogram showing Mouse SP2/0 stained with bs-1159R-PE (red line). The cells were fixed

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with 1% paraformaldehyde (10 min). The cells were then incubated with the antibody(bs-1159R-PE, 2ug/1x106cells) for 30 min at 22-25°C. Isotype control antibody (black line) was rabbit IgG (2ug/1x106cells) used under the same conditions. Acquisition of >5,000 events was performed.

SELECTED CITATIONS

- **[IF=5.232]** Chen F et al. Integrated Analysis of Quantitative Proteome and Transcriptional Profiles Reveals the Dynamic Function of Maternally Expressed Proteins After Parthenogenetic Activation of Buffalo Oocyte.Mol Cell Proteomics. 2018 Oct;17(10):1875-1891. WB ;Buffalo. 30002204

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