bs-5081R **[Primary Antibody]**

Lamin B Receptor Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3930 **SWISS:** Q14739

Target: Lamin B Receptor

Immunogen: KLH conjugated synthetic peptide derived from human Lamin B Receptor: 1-100/615.

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: Lamins are nuclear membrane proteins that serve to maintain specific cellular functions, such as DNA replication and chromatin organization. Lamin B receptor (LBR) is an integral protein of the nuclear envelope inner membrane. It is phosphorylated by CDC2 protein kinase in mitosis when the inner nuclear membrane breaks down into vesicles that dissociate from the lamina and the chromatin. It is phosphorylated by different protein kinases in interphase when the membrane is associated with these structures. The cleavage of lamins results in nuclear disregulation and cell death.

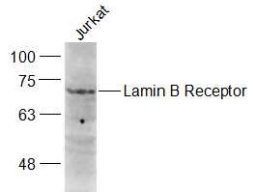
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/Test)
ICC/IF (1:25)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Cow, Horse)

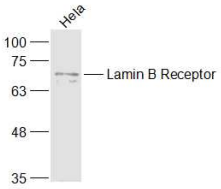
Predicted MW.: 68 kDa

Subcellular Location: Cell membrane ,Cytoplasm ,Nucleus

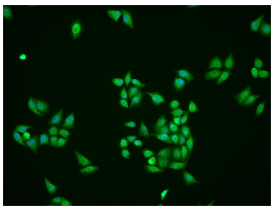
VALIDATION IMAGES



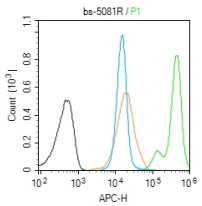
Sample: Jurkat(Human) Cell Lysate at 30 ug Primary: Anti-Lamin B Receptor (bs-5081R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68 kD Observed band size: 68 kD



Sample: Hela(Human) Cell Lysate at 30 ug Primary: Anti-Lamin B Receptor (bs-5081R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 68 kD Observed band size: 68 kD



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (Lamin B Receptor) polyclonal Antibody, Unconjugated (bs-5081R) 1:25, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Blank control (Black line):Molt4 (Black). Primary Antibody (green line): Rabbit Anti-Lamin B Receptor antibody (bs-5801R) Dilution: 1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution:

1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. 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.