bs-2999R **[Primary Antibody]**

PCGF4/BMI1 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 100532731 **SWISS:** P35226

Target: PCGF4/BMI1

Immunogen: KLH conjugated synthetic peptide derived from human Bmi1/PCGF4: 61-160/326.

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: The Bmi1 oncogene induces telomerase activity and immortalizes human mammary epithelial cells. Bmi1 extends the replicative life span of human fibroblasts by suppressing the p16-dependent senescence pathway.
Polycomb group (PcG) genes are involved in the maintenance of cellular memory through epigenetic chromatin modifications. Recent studies have implicated a role for PcG genes in the self-renewal of hematopoietic stem cells (HSCs), a process in which cellular memory is maintained through cell division. Among the PcG genes, Bmi1 plays a central role in the inheritance of stemness, and its forced expression promotes HSC self-renewal. These findings highlight the importance of epigenetic regulation in HSC self-renewal and identify PcG genes as potential targets for therapeutic HSC manipulation. Involved in maintaining the transcriptionally repressive state of genes. Modifies chromatin, rendering it heritably changed in its expressibility.

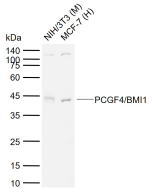
Applications: **WB** (1:500-2000)
Flow-Cyt (1ug/Test)

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

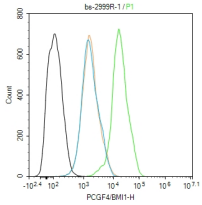
Predicted MW.: 37 kDa

Subcellular Location: Cytoplasm ,Nucleus

VALIDATION IMAGES



Sample: Lane 1: Mouse NIH/3T3 cell lysates Lane 2: Human MCF-7 cell lysates Primary: Anti-PCGF4/BMI1 (bs-2999R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 37 kDa Observed band size: 44 kDa



Blank control（black line）:NIH/3T3. Primary Antibody (green line): Rabbit Anti-PCGF4/BMI1 antibody (bs-2999R) Dilution:1ug/Test; Secondary Antibody（white blue line）: Goat anti-rabbit IgG-AF488 Dilution: 0.5ug/Test. Isotype control（orange line）: Normal Rabbit IgG Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at -20°C, 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.

SELECTED CITATIONS

- **[IF=1.772]** Penggang Liu. et al. Expression of tumour transcription factor GLI1 in canine mammary tumours tissue. VET MED SCI. 2022 Jun 06 WB ;Dog. 35667035