

Product datasheet for TA319184

BMI1 Goat Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: IF, WB

Recommended Dilution: ELISA: 1:5,000 - 1:30,000, WB: 1:500 - 1:3,000, IF: 1:200

Reactivity: Human Host: Goat

Clonality: Polyclonal

Immunogen: This affinity purified antibody was prepared from whole goat serum produced by repeated

immunizations with a synthetic peptide corresponding to amino acids 252-264 of human

Bmi1 protein.

Formulation: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Concentration: lot specific

Conjugation: Unconjugated

Storage: Store at -20°C as received.

Stability: Stable for 12 months from date of receipt.

Gene Name: BMI1 proto-oncogene, polycomb ring finger

Database Link: NP 005171

Entrez Gene 648 Human

P35226

Synonyms: BMI1; FLVI2; PCGF4; RNF51



OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Note:

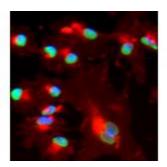
The Bmi-1 oncogene (also known as polycomb group ring finger 4, MGC12685, murine leukemia viral (bmi 1) oncogene homolog, oncogene BMI 1, polycomb complex protein BMI 1 and RNF51) induces telomerase activity and immortalizes human mammary epithelial cells. Bmi-1 extends the replicative life span of human fibroblasts by suppressing the p16-dependent senescence pathway. The 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, Bmi-1 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.

Protein Families:

Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors

Product images:





WB using Anti-Bmi1 antibody shows detection of a band ~37 kDa corresponding to human Bmi1 (arrowhead). Approximately 20 ug of a U2OS whole cell lysate (bone osteosarcoma) was separated by 4-20% SDS-PAGE and transferred onto nitrocellulose. The primary antibody diluted to 1:1,000 in PBS containing 1% nonfat dry milk. The membrane was washed and reacted with a 1:20,000 dilution of IRDye™800 conjugated Rb-a-Goat IgG [H&L] MX for 45 min at room temperature.

Immunofluorescence using affinity purified goat anti Bmi1 shows nuclear staining (green) of methanol fixed (100%, 5 min) HepG2 cells. The cells were blocked and permeabilized in 1%BSA / 10% normal donkey serum / 0.3M glycine in 0.1% PBS-Tween for 1h prior to incubation with the primary antibody (1:200 dilution) overnight at +4°C and detected with a 488nm fluorescent dye conjugated secondary Ab. Cell nuclei are stained with DAPI (blue) and plasma membranes are stained with WGA (red).