

Product datasheet for **AP07560PU-N**

Bmi1 (COMMD3-BMI1) Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ELISA: 1/5000 - 1/30000. Immunocytochemistry. Immunofluorescence. Immunohistochemistry on Paraffin Sections: 2.5 µg/ml. Western Blot: 1/500 - 1/3000.
Reactivity:	Human, Bovine, Canine, Chicken, Feline, Frog, Monkey, Mouse, Rat
Host:	Goat
Clonality:	Polyclonal
Immunogen:	Synthetic peptide
Specificity:	This antibody reacts to DNA-binding protein Bmi-1.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 with 0.01% (w/v) Sodium Azide State: Aff - Purified State: Liquid purified Ig
Concentration:	lot specific
Purification:	Immunoaffinity Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	COMMD3-BMI1 readthrough
Database Link:	Entrez Gene 100532731 Human P35226



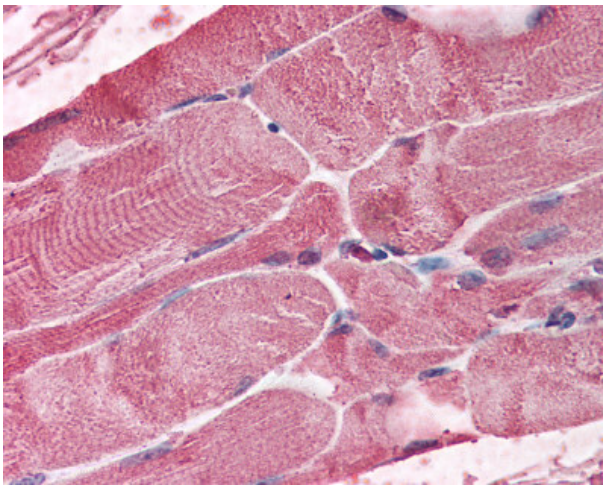
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Background:

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.

Synonyms:

BMI1, PCGF4

Product images:

Skeletal muscle: Formalin-Fixed Paraffin-Embedded (FFPE)