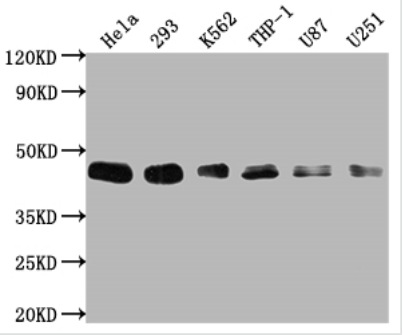
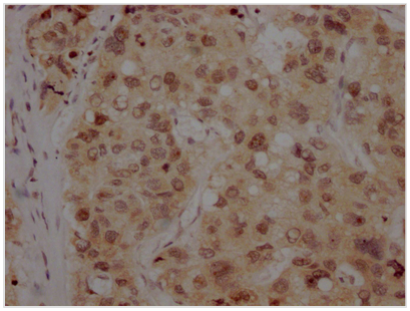
BMI1 Antibody

Product Code	CSB-RA916472A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P35226
Immunogen	A synthesized peptide derived from human Bmi1
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. PcG PRC1 complex acts via chromatin remodeling and modification of histones; it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility. In the PRC1 complex, it is required to stimulate the E3 ubiquitin-protein ligase activity of RNF2/RING2.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Cancer; Cell biology; Stem cells
Gene Names	BMI1
Accession NO.	1F2

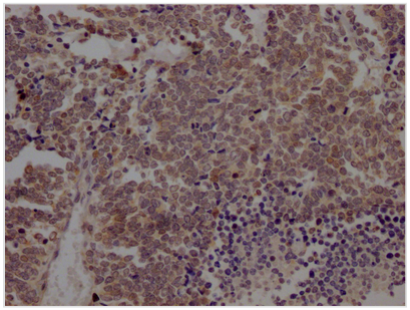
Image



Western Blot
Positive WB detected in: Hela whole cell lysate, 293 whole cell lysate, K562 whole cell lysate, THP-1 whole cell lysate, U87 whole cell lysate, U251 whole cell lysate
All lanes: BMI1 antibody at 1:2000
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 37 kDa
Observed band size: 45 kDa



IHC image of CSB-RA916472A0HU diluted at 1:100 and staining in paraffin-embedded human liver cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA916472A0HU diluted at 1:100 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

BMI1 is a component of the PRC1 and serves as a polycomb that blocks premature senescence and keeps stem cells' self-renewal potency. BMI1 is involved in the modulation of the proliferation activity of normal, stem, and progenitor cells and plays a role in the cell cycle, cell immortalization, and senescence. BMI1 has been demonstrated to be overexpressed in a variety of cancers including ovarian, gastric, and breast cancers, and its upregulation is related to cancer proliferation, invasion, metastasis, clinical-grade/stage, chemoresistance, radiosensitivity, and poor prognosis.

The recombinant BMI1 antibody was produced by cloning antibody genes into an expression vectors, which were subsequently introduced into mammalian cells to provide animal-free antibody production. This BMI1 antibody has been validated in ELISA, WB, IHC. It has the features of improved affinity, stability, and consistency between different batches.