Data Sheet (Cat.No.TMAC-00455)

Anti-BMI-1 Antibody (4I124)

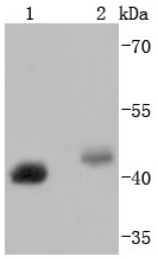
Product Details

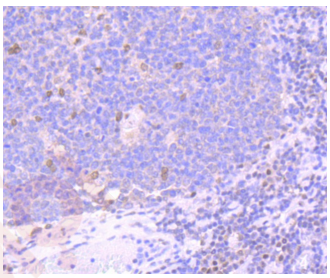
Ig Type:	IgG
Reactivity:	Human,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 42 kDa.
Clone:	4I124
Purification:	ProA affinity purified

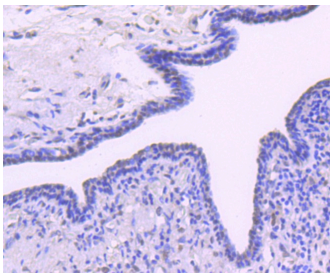
Applications

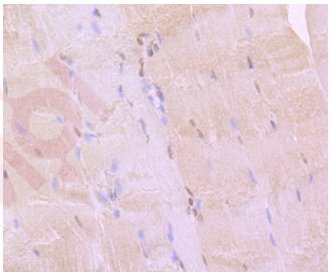
Verified Activity:

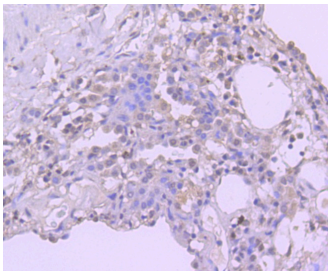
1. Western blot analysis of Bmi1 on different lysates using anti-Bmi1 antibody at 1/1,000 dilution. Positive control: Lane 1: K562, Lane 2: PC-12.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Bmi1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Bmi1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded rat smooth muscle tissue using anti-Bmi1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-Bmi1 antibody. Counter stained with hematoxylin.
6. ICC staining Bmi1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining Bmi1 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining Bmi1 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

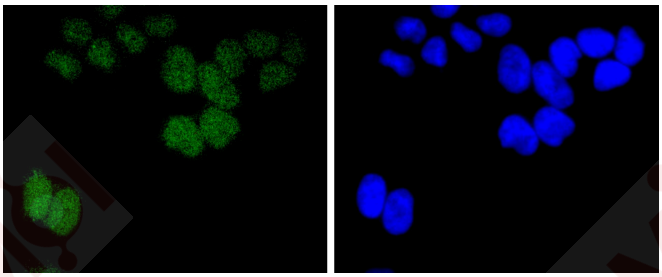


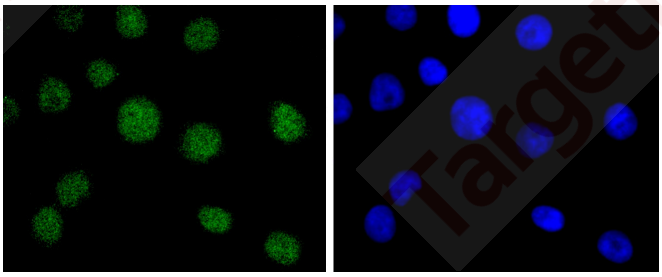


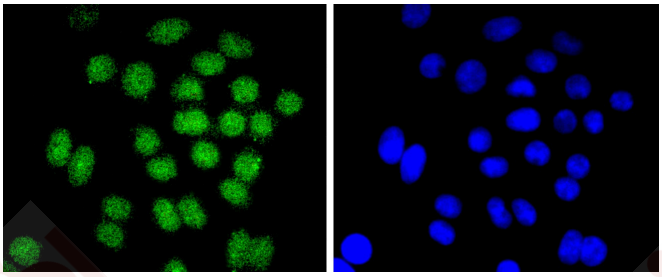












Application: ICC/IF,IHC,WB

Recommended WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P35226

Research Background

In Drosophila, Polycomb (Pc-g) gene family encodes chromatin proteins that are required for the repression of homeotic loci in embryonic development. Mel-18 and Bmi-1, mammalian homologs of Drosophila Pc-g group proteins, are similarly expressed during development and implicated in the regulation of gene expression, axial skeleton development, control of proliferation and survival of haematopoietic cells. Mel-18 directly binds to DNA through a RING-finger motif and preferentially associates with juxtaposed enhancer elements on various genes, including Bcl-2, c-Myc and Hox. Mel-18 is an immediate early response gene within the c-Myc/Cdc25 signaling cascade that exhibits tumor suppressor activity and negatively regulates cell cycle progression by blocking S phase entry. Alternatively, Bmi-1 has been identified as a potent oncogene as it contributes to the transcriptional activation of genes implicated in early lymphoid development. Proviral activation of Bmi-1 expression corresponds to enhanced gene-specific activation of other proto-oncogenes, including c-Myc and Pim, subsequently resulting in the progression of lymphomagenesis.

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