Datasheet for ABIN389084

anti-BMI1 antibody (C-Term)

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Overview

Quantity:	400 µL
Target:	BMI1
Binding Specificity:	AA 257-286, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BMI1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This BMI1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 257-286 amino acids from the C-terminal region of human BMI1.
Clone:	RB02926
Isotype:	Ig Fraction
Predicted Reactivity:	B, C, M
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	BMI1
Alternative Name:	BMI1 (BMI1 Products)

Target Details

Background:	BMI is a component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex 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 ligase activity of RNF2/RING2. BMI cooperates with the MYC oncogene to produce B-lymphomas.
Molecular Weight:	36949
Gene ID:	648
NCBI Accession:	NP_001190991, NP_005171
UniProt:	P35226
Pathways:	Cell Division Cycle, Autophagy

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Wang, Venugopal, Manoranjan, McFarlane, OFarrell, Nolte, Gunnarsson, Hollenberg, Kwiecien,

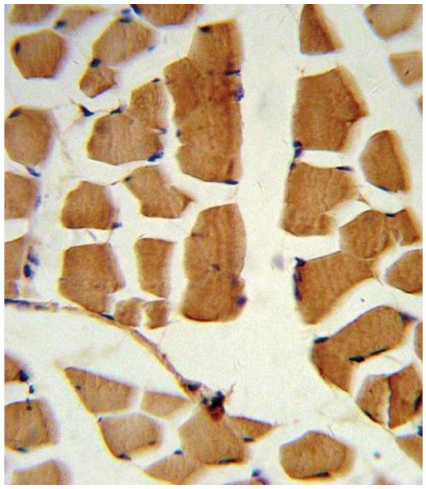
Publications

Northcott, Taylor, Hawkins, Singh: "Sonic hedgehog regulates Bmi1 in human medulloblastoma brain tumor-initiating cells." in: **Oncogene**, Vol. 31, Issue 2, pp. 187-99, (2012) (PubMed).

Lewis, Segditsas, Deheragoda, Pollard, Jeffery, Nye, Lockstone, Davis, Clark, Stamp, Poulsom, Wright, Tomlinson: "Severe polyposis in Apc(1322T) mice is associated with submaximal Wnt signalling and increased expression of the stem cell marker Lgr5." in: **Gut**, Vol. 59, Issue 12, pp. 1680-6, (2010) (PubMed).

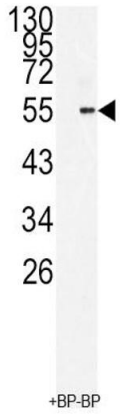
Sangiorgi, Capecchi: "Bmi1 lineage tracing identifies a self-renewing pancreatic acinar cell subpopulation capable of maintaining pancreatic organ homeostasis." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 106, Issue 17, pp. 7101-6, (2009) (PubMed).

Images



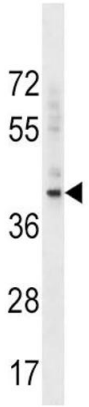
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Formalin-fixed and paraffin-embedded human skeletal muscle reacted with BMI1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry, clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of BMI1 Antibody (C-term) antibody (ABIN389084 and ABIN2839281) in 293 cell line lysates (35 µg/lane). BMI1(arrow) was detected using the purified Pab.



Western Blotting

Image 3. BMI1 Antibody (C-term) (ABIN389084 and ABIN2839281) western blot analysis in K562 cell line lysates (35 µg/lane).This demonstrates the BMI1 antibody detected the BMI1 protein (arrow).