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#78105**BAP1 (D1W9B) Rabbit mAb (ChIP Formulated)**

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
ChIP	H	Endogenous	Rabbit IgG	#Q92560	8314

Product Usage Information

For optimal ChIP results, use 10 µl of antibody and 10 µg of chromatin (approximately 4 x 10⁶ cells) per IP. This antibody has been validated using SimpleChIP[®] Enzymatic Chromatin IP Kits.

Application	Dilution
Chromatin IP	1:50

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

BAP1 (D1W9B) Rabbit mAb recognizes endogenous levels of total BAP1 protein.

Species predicted to react based on 100% sequence homology

Mouse, Rat

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys275 within the linker region of human BAP1 protein.

Background

BRCA1-Associated Protein 1 (BAP1) was originally identified as a BRCA1 associated, nuclear localized ubiquitin hydrolase that suppresses cell growth (1). The protein belongs to the UCH family of deubiquitinases, with a UCH domain in its amino-terminal segment and a BRCA1 interaction domain as well as a nuclear localization signal in its carboxy-terminal segment (1). Frequent gene locus rearrangement, deletion, and null mutation of BAP1 have been found in lung and breast cancers (1,2). *In vivo* mutation analysis of cancer cell line survival and animal tumorigenesis indicates that both the deubiquitinase activity and the nuclear localization signal are required for BAP1 function as a tumor suppressor (3). BAP1 does not have direct deubiquitination activity towards the autoubiquitinated BRCA1/BARD1 E3 complex (4), but its interaction with BARD1 inhibits BRCA1/BARD1 E3 activity by interfering with the complex dimerization process (5). In addition to its interaction with BRCA1/BARD1, BAP1 has also been shown to interact with and deubiquitinate HCF-1, thereby controlling its stability (6).

Background References

- Jensen, D.E. et al. (1998) *Oncogene* 16, 1097-112.
- Buchhagen, D.L. et al. (1994) *Int J Cancer* 57, 473-9.
- Ventii, K.H. et al. (2008) *Cancer Res* 68, 6953-62.
- Mallery, D.L. et al. (2002) *EMBO J* 21, 6755-62.
- Nishikawa, H. et al. (2009) *Cancer Res* 69, 111-9.
- Misaghi, S. et al. (2009) *Mol Cell Biol* 29, 2181-92.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

ChIP: Chromatin IP

Cross-Reactivity Key

H: Human

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