

#13187 Store at -20°C

BAP1 (D1W9B) Rabbit mAb


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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP	H M R	Endogenous	95	Rabbit IgG	#Q92560	8314

Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:100
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. This antibody also cross-reacts with an unidentified protein of 42 kDa.	
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). <i>In vivo</i> 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	1. Jensen, D.E. et al. (1998) <i>Oncogene</i> 16, 1097-112. 2. Buchhagen, D.L. et al. (1994) <i>Int J Cancer</i> 57, 473-9. 3. Ventii, K.H. et al. (2008) <i>Cancer Res</i> 68, 6953-62. 4. Mallery, D.L. et al. (2002) <i>EMBO J</i> 21, 6755-62. 5. Nishikawa, H. et al. (2009) <i>Cancer Res</i> 69, 111-9. 6. Misaghi, S. et al. (2009) <i>Mol Cell Biol</i> 29, 2181-92.	

Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting IP: Immunoprecipitation
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected
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