

BAP1 Polyclonal Antibody

Catalog NumberPA5-12061

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Mouse
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	1:25
Immunogen	KLH conjugated synthetic peptide between 36-66 amino acids from the N-terminal region of human BAP1	Western Blot (WB)	1:1,000
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Concentration	0.5 mg/mL	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Purification	Protein A, Affinity chromatography		
Storage buffer	PBS		
Contains	0.09% sodium azide		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Product specific information

This antibody is predicted to react with bovine, rat and zebrafish based on sequence homology.

Background/Target Information

BRCA1-associated protein-1, or BAP1, interacts with the RING finger domain of BRCA1. The N-terminal 240 amino acids of the predicted 729-amino acid human protein show homology to ubiquitin C-terminal hydrolases (UCHs), thiol proteases that catalyze proteolytic processing of ubiquitin. In addition, BAP1 contains an acidic region, a highly charged C-terminal region, and 2 putative nuclear localization signals. BAP1 and BRCA1 associate in vivo and have overlapping subnuclear localization patterns. BAP1 enhances BRCA1-mediated inhibition of breast cancer cell growth. Northern blot analysis indicates that BAP1 is expressed as a 4-kb mRNA in all human tissues tested, with A 4. 8-kb transcript expressed exclusively in testis. Northern blot analysis and in situ hybridization reveal that BAP1 and BRCA1 are coexpressed during murine breast development and remodeling. The BAP1 gene has been mapped to 3p21. 3, a region of loss of heterozygosity for breast cancer as well as frequently deleted in lung carcinomas. Intragenic homozygous rearrangements and deletions of BAP1 appear in lung carcinoma cell lines. It has been postulated that BAP1 is a tumor suppressor gene that functions in the BRCA1 growth control pathway.

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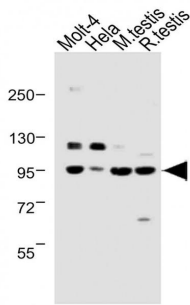
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Product Images For BAP1 Polyclonal Antibody

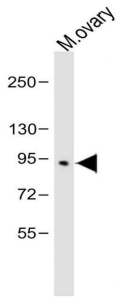
BAP1 Antibody (PA5-12061) in WB

All lanes: BAP1 Antibody (Product # PA5-12061) at 1:1000 dilution. Lane 1: Molt-4 whole cell lysate Lane 2: Hela whole cell lysate Lane 3: Mouse testis lysate Lane 4: Rat testis lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1:10,000 dilution. Predicted band size : 95 kDa Blocking /Dilution buffer: 5% NFDm/TBST.



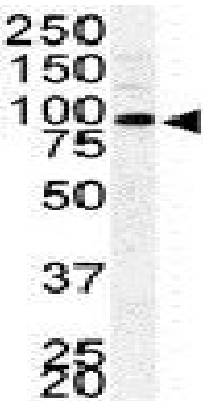
BAP1 Antibody (PA5-12061) in WB

Anti-BAP1 Antibody (Product # PA5-12061) at 1:2000 dilution + Mouse ovary lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1:10000 dilution. Predicted band size: 95 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



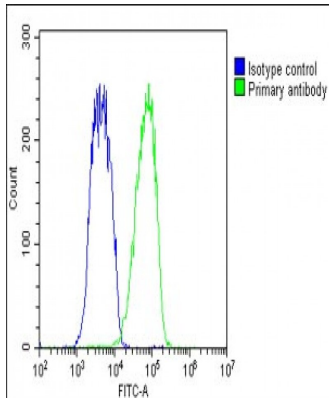
BAP1 Antibody (PA5-12061) in WB

Western blot analysis using a BAP1 polyclonal antibody (Product # PA5-12061) in mouse testis lysates (35 µg per lane).



BAP1 Antibody (PA5-12061) in Flow

Overlay histogram showing Hela cells stained with BAP1 antibody (Product # PA5-12061, green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (Product # PA5-12061, 1:25 dilution) for 60 min at 37°C. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1:200 dilution for 40 min at 37°C. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10⁶ cells) used under the same conditions. Acquisition of >10, 000 events was performed.



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PubMed References For BAP1 Polyclonal Antibody

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
Mouse / Not Cited	PA5-12061 was used in Immunohistochemistry (Paraffin) to provide an in vivo platform to further study this lethal class of neoplasm.
	Cancers (2021; 13:)
	"Oncogenic KRAS Requires Complete Loss of BAP1 Function for Development of Murine Intrahepatic Cholangiocarcinoma." Author(s):Marcus R,Ferri-Borgogno S,Hosein A,Foo WC,Ghosh B,Zhao J,Rajapakshe K,Brugarolas J,Maitra A,Gupta S PubMed Article URL: http://dx.doi.org/10.3390/cancers13225709

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