For Research Use Only

PUMA Polyclonal antibody

Catalog Number:55120-1-AP

Featured Product

60 Publications



Basic Information	Catalog Number: 55120-1-AP	GenBank Accession Number: NM_014417 GeneID (NCBI): 27113 UNIPROT ID: Q9BXH1 Full Name: BCL2 binding component 3 Calculated MW: 21 kDa Observed MW: 18-21 kDa		Purification Method: Antigen affinity purification					
	Size: 150ul , Concentration: 500 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG			Recommended Dilutions: WB 1:500-1:3000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:100-1:500					
					Applications	Tested Applications:	Positive Controls:		
						WB, IP, IHC, ELISA		WB : mouse heart tissue, rat heart tissue IP : mouse heart tissue,	
	WB, IHC								
Species Specificity: human, mouse, rat	IHC : human testis tissue, human prostate cancer tissue								
Cited Species: human, rat, mouse, zebrafish									
Note-IHC: suggested antigen (TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0	retrieval with vely, antigen vith <mark>citrate</mark>								
Background Information	PUMA, also named as JFY-1 and BBC3, belongs to the Bcl-2 family. It is a critical mediator of p53-dependent and - independent apoptosis induced by a wide variety of stimuli. It serves as a proximal signaling molecule whose expression is regulated by transcription factors in response to these stimuli. PUMA transduces death signals primarily to the mitochondria, where it acts indirectly on the Bcl-2 family members Bax and/or Bak by relieving the inhibition imposed by antiapoptotic members. It directly binds and antagonizes all known antiapoptotic Bcl-2 family members to induce mitochondrial dysfunction and caspase activation. PUMA ablation or inhibition leads to apoptosis deficiency underlying increased risks for cancer development and therapeutic resistance. It is a general sensor of cell death stimuli and a promising drug target for cancer therapy and tissue damage. It is essential mediator of p53-dependent and p53-independent apoptosis (PMID: 19641508). Catalog #55120-1-AP can recognize PUMA alpha 21-24 kDa and PUMA beta 15-18 kDa.								
Notable Publications	Author Pu	bmed ID Jou	rnal	Application					
	Emily Filichia 27	619562 Sci	Rep	WB					
	Yang Gao 32'	932732 Int]	I Mol Sci	WB					
	Junwei Du 32	891613 Life	Sci	WB					
Storage	Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer: PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquiting is unprecessary for -20°C storage								
*** 20ul sizes contain 0.1% BSA	Anquoting is unnecessary for -20 CS	norage .							
For technical support and original validation da T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free	ta for this product please contact: E: proteintech@ptglab.com		This product is Group brand ar	exclusively available under Proteintech nd is not available to purchase from any					

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55120-1-AP (PUMA antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



IP result of anti-PUMA (IP:55120-1-AP, 4ug; Detection:55120-1-AP 1:500) with mouse heart tissue lysate 3200ug.



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 55120-1-AP (PUMA Antibody) at dilution of 1:200 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human testis tissue slide using 55120-1-AP (PUMA Antibody) at dilution of 1:200 (under 40x lens).