

For Research Use Only

# BLMH Polyclonal antibody

Catalog Number: 14941-1-AP **3 Publications**



## Basic Information

<b>Catalog Number:</b> 14941-1-AP	<b>GenBank Accession Number:</b> BC003616	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 400 µg/ml	<b>GeneID (NCBI):</b> 642	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q13867	
<b>Isotype:</b> IgG	<b>Full Name:</b> bleomycin hydrolase	
<b>Immunogen Catalog Number:</b> AG6888	<b>Calculated MW:</b> 53 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

<b>Tested Applications:</b> IF/ICC, IHC, IP, WB, ELISA	<b>Positive Controls:</b> WB : human colon tissue, mouse pancreas tissue, mouse spleen tissue IP : mouse skin tissue, IHC : human colon cancer tissue, IF : HeLa cells,
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> hamster, human, mouse	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

BLMH (Bleomycin hydrolase) is also named as BH, BMH and belongs to the peptidase C1 family. The gene is expressed in many human tissues with elevated expression levels found in testis, skeletal muscle, and pancreas, and low levels of expression in colon and peripheral blood leukocytes (PMID:8639621). The protein catalyzes the inactivation of the antitumor drug BLM (a glycopeptide) by hydrolyzing the carboxamide bond of its B-aminoalaninamide moiety thus protecting normal and malignant cells from BLM toxicity. BH-immunoreactivity is essentially located in the cytoplasm and at the outer membrane of the rough endoplasmic reticulum of epithelial cells of the kidney, as well as in that of hepatocytes of the liver (PMID:17158865).

## Notable Publications

Author	Pubmed ID	Journal	Application
Ljudmila Solovjeva	26458748	BMC Mol Biol	IF
Bin Chen	36484368	Int J Oncol	IHC
Munehiro Tsurumachi	37003921	J Dermatol 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.  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

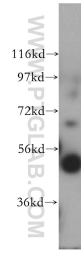
T: 4006900926

E: Proteintech-CN@ptglab.com

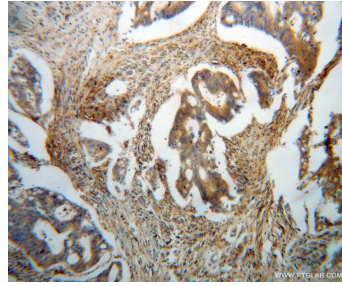
W: ptgcn.com

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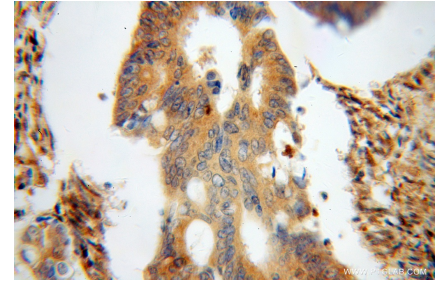
## Selected Validation Data



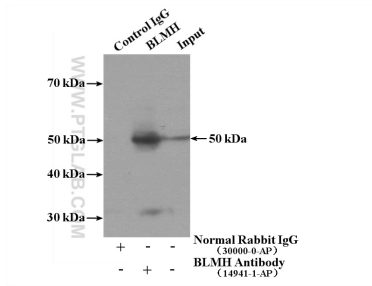
human colon tissue were subjected to SDS PAGE followed by western blot with 14941-1-AP (BLMH antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



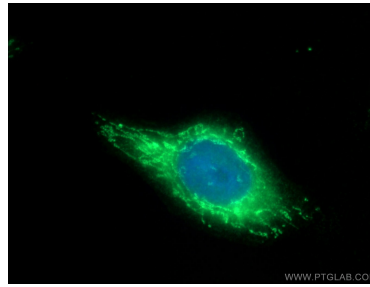
Immunohistochemical analysis of paraffin-embedded human colon cancer using 14941-1-AP (BLMH antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human colon cancer using 14941-1-AP (BLMH antibody) at dilution of 1:100 (under 40x lens).



IP result of anti-BLMH (IP:14941-1-AP, 4ug; Detection:14941-1-AP 1:1000) with mouse skin tissue lysate 3200ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 14941-1-AP (BLMH antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).