

For Research Use Only

HMGA1 Polyclonal antibody

Catalog Number: 29895-1-AP **1 Publications**



Basic Information

Catalog Number: 29895-1-AP	GenBank Accession Number: BC071864	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 850 µg/ml by Nanodrop;	GeneID (NCBI): 3159	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500
Source: Rabbit	Full Name: high mobility group AT-hook 1	
Isotype: IgG	Observed MW: 20 kDa	
Immunogen Catalog Number: AG31866		

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : HepG2 cells, MKN-45 cells
Species Specificity: Human	IHC : human prostate cancer tissue, human pancreas cancer tissue, human breast cancer tissue
Cited Species: human	

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

HMGA1, the high mobility group A1, encodes an oncofetal protein that remodels the chromatin structure and promotes the interaction between transcriptional regulatory proteins and DNA in different cancers (PMID:8414980, PMID:11406267). The isoforms HMGA1a and HMGA1b can cross link DNA fibers in vitro and induce chromatin clustering in vivo (PMID:21596776). Mice lacking variant of HMGA1 are diabetic, show a cardiac hypertrophy and low levels of the insulin receptor (PMID:19664187). HMGA1 protein is mainly located in nucleus, especially in heterochromatin. HMGA1 is up-regulated in many tumours, including epithelial and mesenchymal tissue-originated tumours (PMID:30614613).

Notable Publications

Author	Pubmed ID	Journal	Application
Shaoyu Wang	36776216	Pathol Oncol Res	WB

Storage

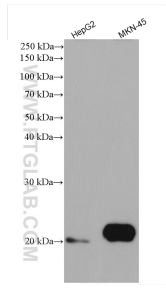
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 20ul sizes contain 0.1% BSA**

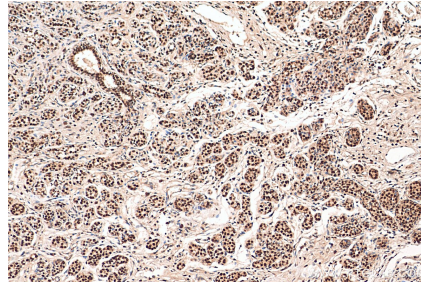
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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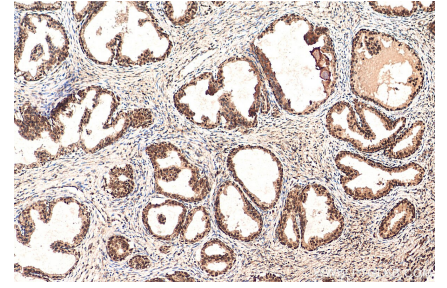
Selected Validation Data



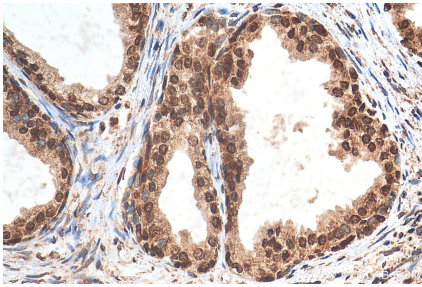
Various lysates were subjected to SDS PAGE followed by western blot with 29895-1-AP (HMGA1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



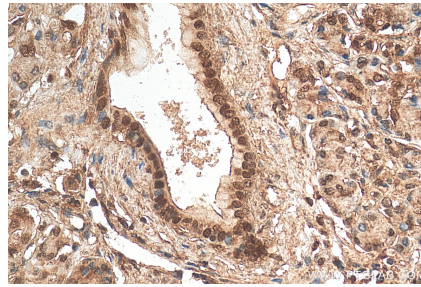
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



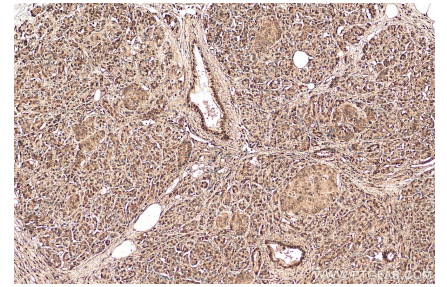
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).