

For Research Use Only

HMGA1 Polyclonal antibody

Catalog Number: 29895-1-AP

3 Publications



Basic Information

Catalog Number: 29895-1-AP	GenBank Accession Number: BC071864	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 850 ug/ml by Nanodrop;	GeneID (NCBI): 3159	Recommended Dilutions: WB 1:5000-1:50000
Source: Rabbit	UNIPROT ID: P17096	IHC 1:50-1:500
Isotype: IgG	Full Name: high mobility group AT-hook 1	IF/ICC 1:50-1:500
Immunogen Catalog Number: AG31866	Observed MW: 20 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, ELISA	Positive Controls:
Cited Applications: WB, IHC	WB : HepG2 cells, MKN-45 cells
Species Specificity: human, mouse	IHC : human prostate cancer tissue, human pancreas cancer tissue, human breast cancer tissue
Cited Species: human	IF/ICC : HUVEC cells,
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
Yi-Cheng Sin	39421203	Chem Sci	WB
Zhanming Ma	38505063	J Thorac Dis	IHC
Shaoyu Wang	36776216	Pathol Oncol Res	WB

Storage

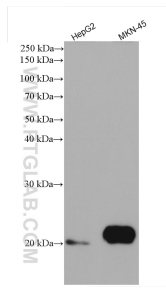
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

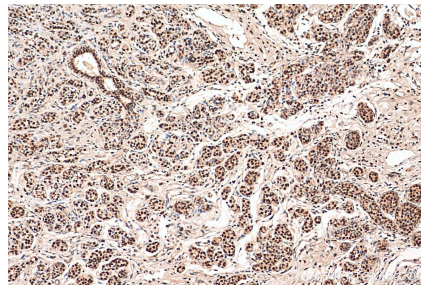
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

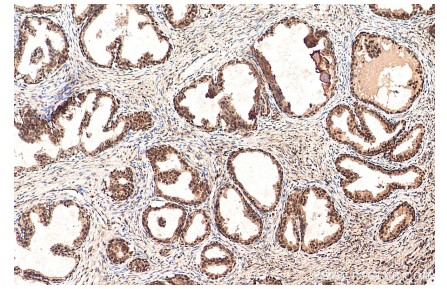
Selected Validation Data



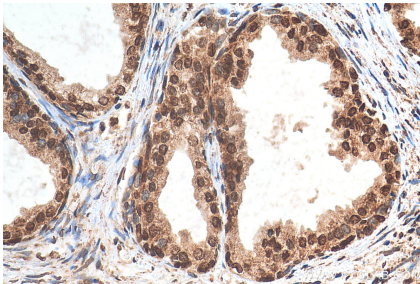
Various lysates were subjected to SDS PAGE followed by western blot with 29895-1-AP (HMGA1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



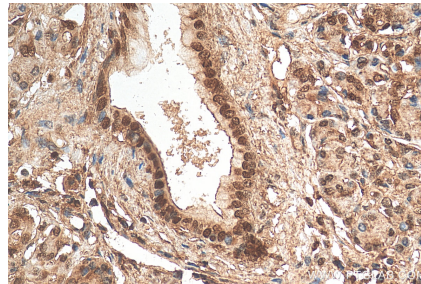
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



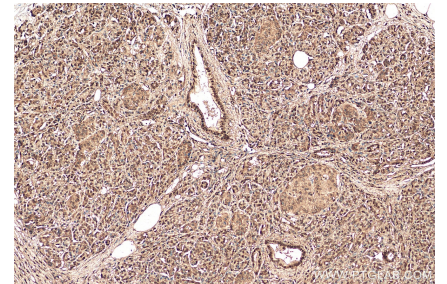
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



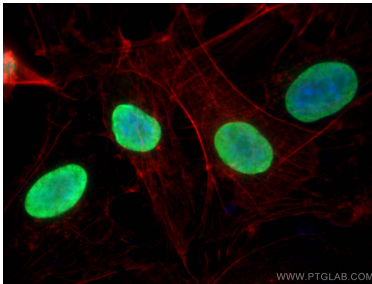
Immunohistochemical analysis of paraffin-embedded human prostate cancer tissue slide using 29895-1-AP (HMGA1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



Immunofluorescent analysis of (4% PFA) fixed HUVEC cells using HMGA1 antibody (29895-1-AP) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).