For Research Use Only

HMGA2 Polyclonal antibody

Catalog Number:20795-1-AP Featured Product 34 Publications

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Basic Information

Catalog Number:
20795-1-AP

Size:
150ul , Concentration: 650 μg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG14588

GenBank Accession Number:
NM_003483

GeneID (NCBI):
8091

UNIPROT ID:
P52926

Full Name:
high mobility group AT-hook 2

Calculated MW:
108 aa, 12 kDa

Observed MW:
18-20 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:250-1:1000
IF 1:50-1:500

Applications

Tested Applications:
IF, IHC, IP, WB, ELISA

Cited Applications:
CoIP, IF, IHC, WB

Species Specificity:
human, mouse, rat

Cited Species:
human, rat, mouse

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

Positive Controls:

WB : A549 cells, HepG2 cells, NIH/3T3 cells, C6 cells, HCT 116 cells, NCI-H1299 cells

IP : NIH/3T3 cells,

IHC : human pancreas cancer tissue, human colon cancer tissue

IF : A549 cells,

Background Information

HMGA2 belongs to the family of high mobility group with AT-hook DNA binding domain. HMGA proteins are considered architectural transcription factors; they do not have direct transcriptional activation capacity, but instead regulate gene expression by changing DNA conformation through binding to AT-rich regions in the DNA and/or direct interaction with other transcription factors (PMID: 18202751,19551524). HMGA2 is abundantly and ubiquitously expressed and plays a crucial role during embryonic development (18425117). HMGA2 promotes stem cell self-renewal and research studies have shown that decreased HMGA2 expression is associated with stem cell aging (19551524). Investigators have shown that expression levels of HMGA2 are very low in normal adult tissues, while either overexpression or rearrangement is associated with many types of cancer (PMID: 20228781). The calcualted molecular weight of HMGA2 is 12 kDa, but modified HMGA2 is about 18-20 kDa. (PMID: 18505920)

Notable Publications

Author	Pubmed ID	Journal	Application
Miao Li	30247605	J Clin Endocrinol Metab	IHC
Junjie Hasenbilige	34481905	Toxicology	WB
Ri-Xin Chen	31619685	Nat Commun	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
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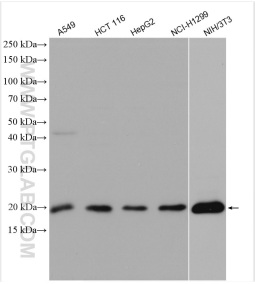
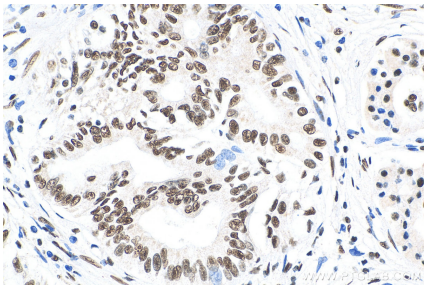
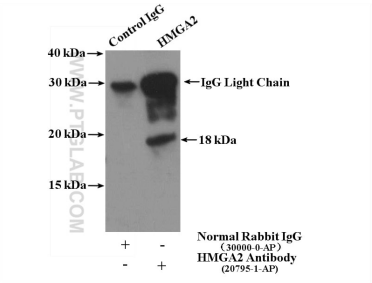
Selected Validation Data



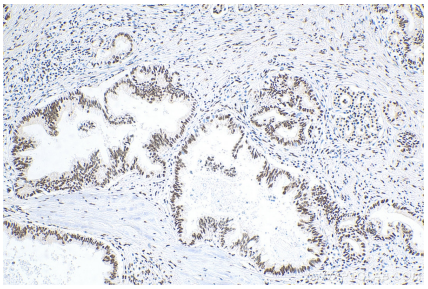
Various lysates were subjected to SDS PAGE followed by western blot with 20795-1-AP (HMGA2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



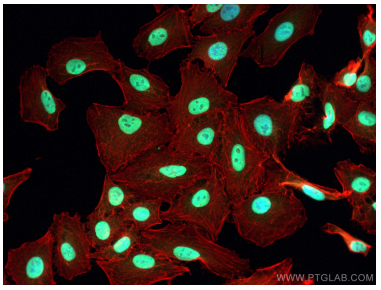
Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 20795-1-AP (HMGA2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-HMGA2 (IP:20795-1-AP, 4ug; Detection:20795-1-AP 1:1000) with NIH/3T3 cells lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer tissue slide using 20795-1-AP (HMGA2 antibody) at dilution of 1:500 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using HMGA2 antibody (20795-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).