

For Research Use Only

HMG20A Polyclonal antibody

Catalog Number: 12085-2-AP

Featured Product

11 Publications



Basic Information

Catalog Number:

12085-2-AP

Size:

150ul, Concentration: 450 ug/ml by Nanodrop and 253 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2718

GenBank Accession Number:

BC021959

GeneID (NCBI):

10363

UNIPROT ID:

Q9NP66

Full Name:

high-mobility group 20A

Calculated MW:

347 aa, 40 kDa

Observed MW:

45-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IP, CoIP, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Positive Controls:

WB : Jurkat cells, HEK-293 cells

IP : Jurkat cells,

IHC : human pancreas cancer tissue,

IF/ICC : HepG2 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

The HMG (high mobility group) proteins are nonhistone chromosomal proteins that is present in almost all eukaryotic cells, and it functions to stabilize nucleosome formation and acts as a transcription-factor-like protein that regulates the expression of several genes. HMG20A has a role in the initiation of neuronal differentiation by activating REST-responsive genes, and it also involves in the recruitment of the histone methyltransferase MLL and consequent increased methylation of histone H3 lysine 4. HMG20A (for inhibitor of BRAF35) overcomes the repressive effects of the neuronal silencer REST and activates REST-responsive genes through the modulation of histone methylation

Notable Publications

Author	Pubmed ID	Journal	Application
Lukas Leiendecker	33026191	EMBO Mol Med	WB
Li Na	36335317	BMC Oral Health	WB
Yu Fu	31889891	Cancer Cell Int	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

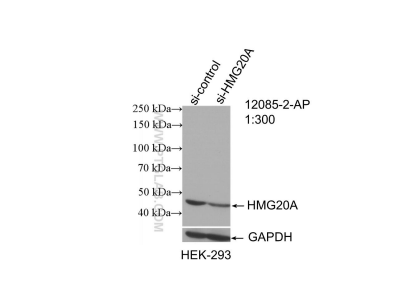
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

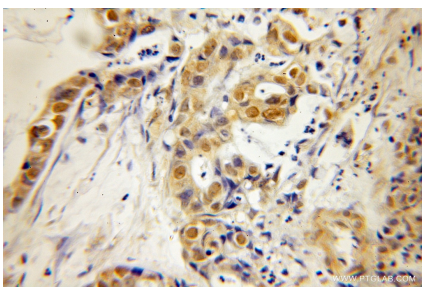
E: proteintech@ptglab.com
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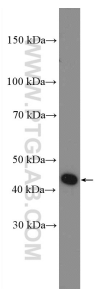
Selected Validation Data



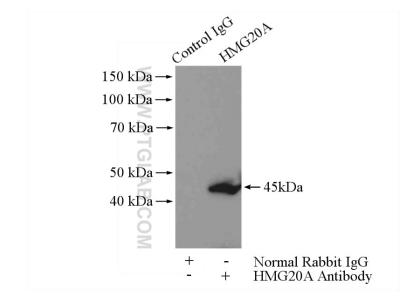
WB result of HMG20A antibody (12085-2-AP; 1:300; incubated at room temperature for 1.5 hours) with sh-Control and sh-HMG20A transfected HEK-293 cells.



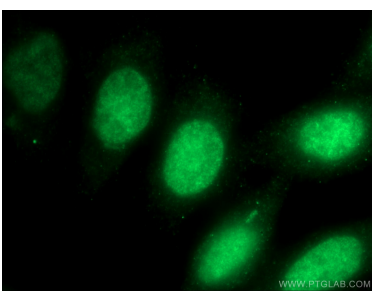
Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 12085-2-AP (HMG20A antibody) at dilution of 1:50 (under 10x lens).



Jurkat cells were subjected to SDS PAGE followed by western blot with 12085-2-AP (HMG20A Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



IP result of anti-HMG20A (IP:12085-2-AP, 4ug; Detection:12085-2-AP 1:500) with Jurkat cells lysate 3200ug.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 12085-2-AP (HMG20A antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated Goat Anti-Rabbit IgG(H+L).