

For Research Use Only

HMGB3 Polyclonal antibody

Catalog Number: 27465-1-AP

Featured Product

8 Publications



Basic Information

Catalog Number:

27465-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 333 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG26361

GenBank Accession Number:

BC070482

GeneID (NCBI):

3149

UNIPROT ID:

O15347

Full Name:

high-mobility group box 3

Calculated MW:

200 aa, 23 kDa

Observed MW:

25 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : BGC-823 cells, MCF-7 cells, SGC-7901 cells, human placenta tissue

IF/ICC : MCF-7 cells,

Background Information

HMGB3, also named HMG2A and HMG4, belongs to the HMGB family. HMGB3 binds to nucleosomes in a sequence-independent manner and participates in DNA repair, replication, transcription, and recombination. HMGB3 is highly expressed in stem cells and cancer cells and is rarely transactivated in normal adult tissues, making it a promising therapeutic target. Overexpressed HMGB3 is closely related to tumor occurrence and reduced survival in cervical cancer, non-small-cell lung cancer, breast cancer, bladder cancer, hepatocellular carcinoma, colorectal cancer, gastric cancer, and leukemia (PMID: 35332131).

Notable Publications

Author	Pubmed ID	Journal	Application
Hai-Long Li	36260266	Curr Med Sci	WB
Hang Yuan	36276139	Front Oncol	WB
Zongjuan Li	33187536	J Exp Clin Cancer 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

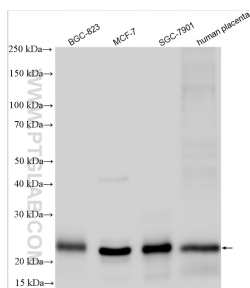
For technical support and original validation data for this product please contact:

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

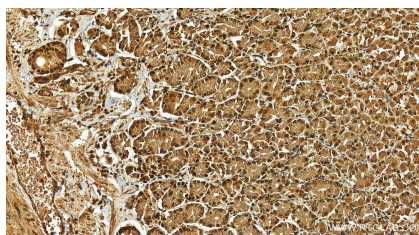
E: proteintech@ptglab.com
W: ptglab.com

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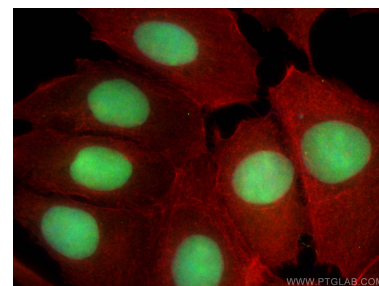
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 27465-1-AP (HMGB3 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach tissue slide using 27465-1-AP (HMGB3 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using HMGB3 antibody (27465-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).