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HMGB3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP14662c

Specification

HMGB3 Antibody (Center) - Product Information

Application	**WB,E**
Primary Accession	O15347
Other Accession	O54879, P40618, Q32L31, NP_005333.2
Reactivity	**Human**
Predicted	**Bovine, Chicken, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**22980**
Antigen Region	**50-79**

HMGB3 Antibody (Center) - Additional Information

Gene ID 3149

Other Names
High mobility group protein B3, High mobility group protein 2a, HMG-2a, High mobility group protein 4, HMG-4, HMGB3, HMG2A, HMG4

Target/Specificity
This HMGB3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 50-79 amino acids from the Central region of human HMGB3.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
HMGB3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

HMGB3 Antibody (Center) - Protein Information

Name HMGB3

Synonyms HMG2A, HMG4

Function Multifunctional protein with various roles in different cellular compartments. May act in a redox sensitive manner. Associates with chromatin and binds DNA with a preference for non-canonical DNA structures such as single-stranded DNA. Can bend DNA and enhance DNA flexibility by looping thus providing a mechanism to promote activities on various gene promoters (By similarity). Proposed to be involved in the innate immune response to nucleic acids by acting as a cytoplasmic promiscuous immunogenic DNA/RNA sensor (By similarity). Negatively regulates B-cell and myeloid cell differentiation. In hematopoietic stem cells may regulate the balance between self-renewal and differentiation. Involved in negative regulation of canonical Wnt signaling (By similarity).

Cellular Location
Nucleus {ECO:0000250|UniProtKB:P40618, ECO:0000255|PROSITE-ProRule:PRU00267}. Chromosome Cytoplasm {ECO:0000250|UniProtKB:O54879}

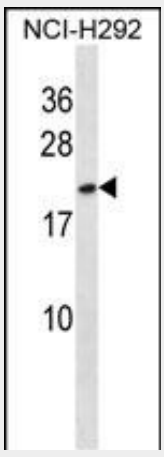
Tissue Location
Expressed predominantly in placenta.

HMGB3 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HMGB3 Antibody (Center) - Images



HMGB3 Antibody (Center) (Cat. #AP14662c) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the HMGB3 antibody detected the HMGB3 protein (arrow).

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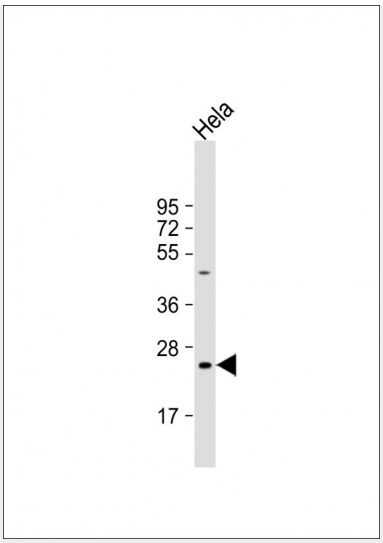

Anti-HMGB3 Antibody (Center) at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 23 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

HMGB3 Antibody (Center) - Background

HMGB3 belongs to the high mobility group (HMG) protein superfamily. Like HMG1 (MIM 163905) and HMG2 (MIM 163906), HMGB3 contains DNA-binding HMG box domains and is classified into the HMG box subfamily. Members of the HMG box subfamily are thought to play a fundamental role in DNA replication, nucleosome assembly and transcription (Wilke et al., 1997 [PubMed 9370291]; Nemeth et al., 2006 [PubMed 16945912]).

HMGB3 Antibody (Center) - References

Nemeth, M.J., et al. Proc. Natl. Acad. Sci. U.S.A. 103(37):13783-13788(2006)
Ross, M.T., et al. Nature 434(7031):325-337(2005)
Vaccari, T., et al. Genomics 49(2):247-252(1998)
Wilke, K., et al. Gene 198 (1-2), 269-274 (1997) :
Davis, D.L., et al. Gene 113(2):251-256(1992)

HMGB3 Antibody (Center) - Citations

- CircRNA_102179 promotes the proliferation, migration and invasion in non-small cell lung cancer cells by regulating miR-330-5p/HMGB3 axis