

Rabbit HMGN2 Polyclonal Antibody | anti-HMGN2 antibody

Anti-HMGN2 Antibody

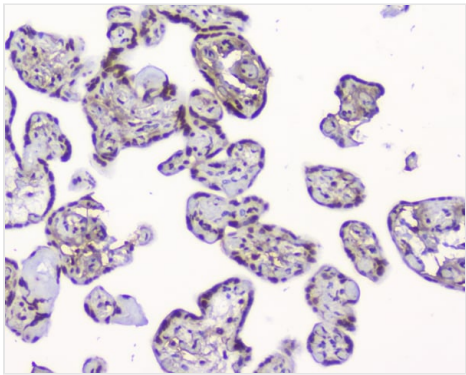
CATALOG # AAA124959	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

HMGN2; Polyclonal Antibody; Anti-HMGN2 Antibody; Non-histone chromosomal protein HMG-17; High mobility group nucleosomal binding domain 2; anti-HMGN2 antibody

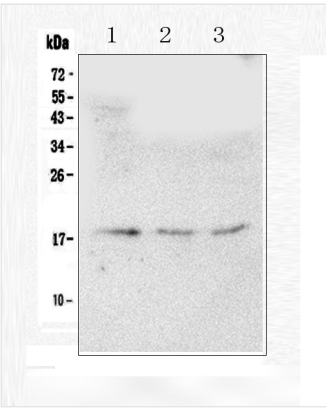
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized
Sequence Length	90
Applicable Applications for anti-HMGN2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence of human HMGN2 (KKGKADAGKEGNNPAENGDAKTDQAQKAEGAGDAK).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Relevant Detection Systems	It is recommended to use an Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC-P.
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of HMGN2 using anti-HMGN2 antibody. HMGN2 was detected in paraffin-embedded section of human oesophagus squama cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HMGN2 antibody. HMGN2 was detected in paraffin-embedded section of human oesophagus squama cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HMGN2 antibody. HMGN2 was detected in paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HMGN2 antibody. HMGN2 was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HMGN2 antibody. HMGN2 was detected in paraffin-embedded section of human ovary cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HMGN2 antibody. HMGN2 was detected in paraffin-embedded section of human placenta tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-HMGN2 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of HMGN2 using anti-HMGN2 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human Hela whole cell lysate, Lane 2: human A549 whole cell lysate, Lane 3: human U-87MG whole cell lysate. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HMGN2 antigen affinity purified polyclonal antibody at 0.5 ug/ml overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for HMGN2 at approximately 18KD. The expected band size for HMGN2 is at 18KD.

ADDITIONAL INFORMATION

Related Product Information for anti-HMGN2 antibody	Description: Rabbit IgG polyclonal antibody for HMGN2 detection. Tested with WB, IHC-P in Human; Mouse; Rat. Background: Non-histone chromosomal protein HMG-17 is a protein that in humans is encoded by the HMGN2 gene. It is mapped to 1p36.11. The protein encoded by this gene binds nucleosomal DNA and is associated with transcriptionally active chromatin. Along with a similar protein, HMGN1, the encoded protein may help maintain an open chromatin configuration around transcribable genes. The protein has also been found to have antimicrobial activity against bacteria, viruses and fungi.
References	1. Porkka, K., Laakkonen, P., Hoffman, J. A., Bernasconi, M., Ruoslahti, E. A fragment of the HMGN2 protein homes to the nuclei of tumor cells and tumor endothelial cells in vivo. Proc. Nat. Acad. Sci. 99: 7444-7449, 2002. 2. West, K. L., Ito, Y., Birger, Y., Postnikov, Y., Shirakawa, H., Bustin, M. HMGN3a and HMGN3b, two protein isoforms with a tissue-specific expression pattern, expand the cellular repertoire of nucleosome-binding proteins. J. Biol. Chem. 276: 25959-25969, 2001.

NCBI AND UNIPROT INFORMATION

NCBI GI #	5031749
NCBI GeneID	3151

NCBI Accession #	NP_005508.1
NCBI GenBank Nucleotide #	NM_005517.4
UniProt Accession #	P05204 ; Q0VGD5 ; Q6FGI5 ; Q96C64
Molecular Weight	9,393 Da
NCBI Official Full Name	non-histone chromosomal protein HMG-17
NCBI Official Synonym Full Names	high mobility group nucleosomal binding domain 2
NCBI Official Symbol	HMGN2
NCBI Official Synonym Symbols	HMG17
NCBI Protein Information	non-histone chromosomal protein HMG-17
UniProt Protein Name	Non-histone chromosomal protein HMG-17
UniProt Gene Name	HMGN2
UniProt Synonym Gene Names	HMG17

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hmgn2-antibody-immunohistochemistry-western-blot-elisa/124959>