

Anti-HMG4 Picoband Antibody

Catalog # ABO12319

Product Information

Application	WB, IHC-P
Primary Accession	O15347
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for High mobility group protein B3(HMGB3) detection. Tested with WB, IHC-P in Human;Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

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
Calculated MW	22980
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Human, Mouse, Rat, By Heat Western blot, 0.1-0.5 μ g/ml, Human, Mouse, Rat
Subcellular Localization	Nucleus . Chromosome . Cytoplasm .
Tissue Specificity	Expressed predominantly in placenta.
Source	Eukaryota
Protein Name	High mobility group protein B3
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Na ₃ N.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HMG4 (62-95aa EMAKADKVRDREMKDYGPAKGKKKKDPNAPKR), identical to the related mouse and rat sequences.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

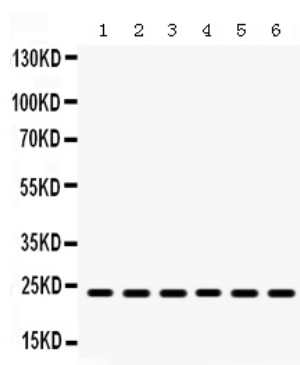
Protein Information

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.

Background

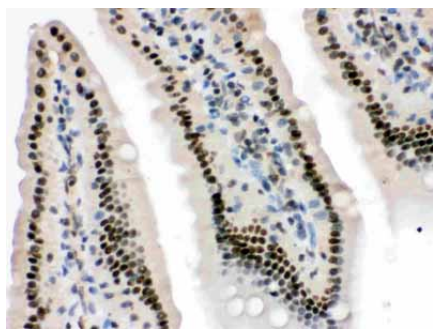
High-mobility group protein B, also known as HMG4, is a protein that in humans is encoded by the HMGB3 gene. This gene encodes a member of a family of proteins containing one or more high mobility group DNA-binding motifs. The encoded protein plays an important role in maintaining stem cell populations, and may be aberrantly expressed in tumor cells. A mutation in this gene was associated with microphthalmia, syndromic 13. There are numerous pseudogenes of this gene on multiple chromosomes. Alternative splicing results in multiple transcript variants.

Images

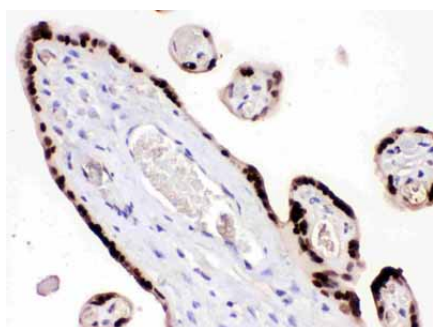
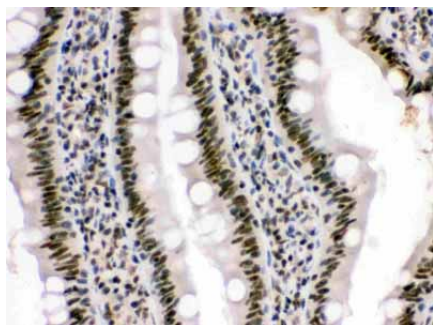


Anti- HMG4 Picoband antibody, ABO12319, Western blotting All lanes: Anti HMG4 (ABO12319) at 0.5ug/ml Lane 1: Mouse Liver Tissue Lysate at 50ug Lane 2: Mouse Kidney Tissue Lysate at 50ug Lane 3: Mouse Testis Tissue Lysate at 50ug Lane 4: 22RV1 Whole Cell Lysate at 40ug Lane 5: MCF-7 Whole Cell Lysate at 40ug Lane 6: NIH3T3 Whole Cell Lysate at 40ug Predicted bind size: 23KD Observed bind size: 23KD

Anti- HMG4 Picoband antibody, ABO12319, IHC(P) IHC(P): Mouse Intestine Tissue



Anti- HMG4 Picoband antibody, ABO12319, IHC(P)IHC(P):
Rat Intestine Tissue



Anti- HMG4 Picoband antibody, ABO12319, IHC(P)IHC(P):
Human Placenta Tissue

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.