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HMGN3 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16805a

Product Information

Application	WB, E
Primary Accession	Q15651
Other Accession	Q9DCB1, Q3ZBV4, NP_620058.1, NP_004233.1
Reactivity	Human
Predicted	Bovine, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36390
Calculated MW	10666
Antigen Region	1-30

Additional Information

Gene ID	9324
Other Names	High mobility group nucleosome-binding domain-containing protein 3, Thyroid receptor-interacting protein 7, TR-interacting protein 7, TRIP-7, HMGN3, TRIP7
Target/Specificity	This HMGN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human HMGN3.
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	HMGN3 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	HMGN3
Synonyms	TRIP7

Function	Binds to nucleosomes, regulating chromatin structure and consequently, chromatin-dependent processes such as transcription, DNA replication and DNA repair. Affects both insulin and glucagon levels and modulates the expression of pancreatic genes involved in insulin secretion. Regulates the expression of the glucose transporter SLC2A2 by binding specifically to its promoter region and recruiting PDX1 and additional transcription factors. Regulates the expression of SLC6A9, a glycine transporter which regulates the glycine concentration in synaptic junctions in the central nervous system, by binding to its transcription start site. May play a role in ocular development and astrocyte function (By similarity).
Cellular Location	Nucleus.
Tissue Location	Expressed in kidney, lung, pancreas, testis, skeletal muscle, heart, thyroid gland, pituitary gland, prostate and uterus. Low expression in liver, spleen, placenta and ovaries

Background

Thyroid hormone receptors are hormone-dependent transcription factors that regulate expression of a variety of specific target genes. The protein encoded by this gene binds thyroid hormone receptor beta, but only in the presence of thyroid hormone. The encoded protein, a member of the HMGN protein family, is thought to reduce the compactness of the chromatin fiber in nucleosomes, thereby enhancing transcription from chromatin templates. Two transcript variants encoding different isoforms have been found for this gene.

References

Ueda, T., et al. Mol. Cell. Biol. 29(19):5264-5276(2009)
Wu, C., et al. Proteomics 7(11):1775-1785(2007)
Olsen, J.V., et al. Cell 127(3):635-648(2006)
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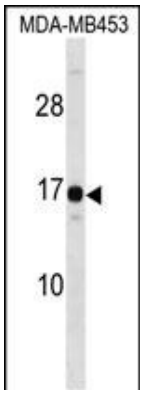
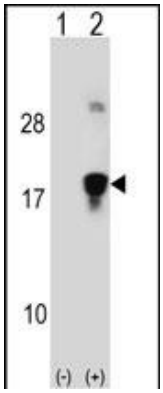
Leong, P.W., et al. Virology 295(1):147-159(2002)

Images



HMGN3 Antibody (N-term) (Cat. #AP16805a) western blot analysis in MDA-MB453 cell line lysates (35ug/lane).This demonstrates the HMGN3 antibody detected the HMGN3 protein (arrow).

Western blot analysis of HMGN3 (arrow) using rabbit polyclonal HMGN3 Antibody (N-term) (Cat. #AP16805a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the HMGN3 gene.



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