

ARG59687 anti-HMGN2 antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes HMGN2
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HMGN2
Species	Human
Immunogen	Synthetic peptide corresponding to a sequence of Human HMGN2. (KKGKADAGKEGNNPAENGDAKTDQAQKAEGAGDAK)
Conjugation	Un-conjugated
Alternate Names	HMG17; High mobility group nucleosome-binding domain-containing protein 2; Non-histone chromosomal protein HMG-17

Application Instructions

Application table	Application	Dilution
	FACS	1:150 - 1:500
	ICC/IF	1:200 - 1:1000
	IHC-P	0.5 - 2 µg/ml
	WB	0.1 - 0.5 µg/ml
Application Note	IHC-P: Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0) for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	18 kDa	

Properties

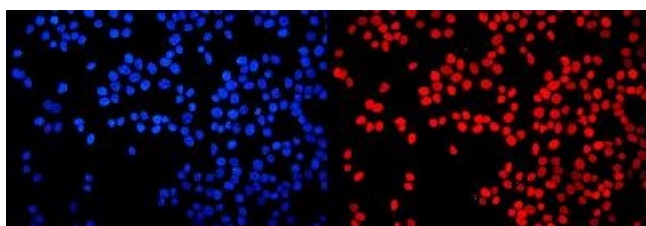
Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.05% Sodium azide and 4% Trehalose.
Preservative	0.05% Sodium azide
Stabilizer	4% Trehalose
Concentration	0.5 mg/ml

Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

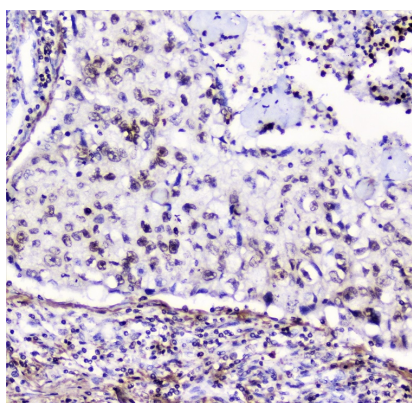
Gene Symbol	HMGN2
Gene Full Name	high mobility group nucleosomal binding domain 2
Background	The protein encoded by this gene binds nucleosomal DNA and is associated with transcriptionally active chromatin. Along with a similar protein, HMGN1, the encoded protein may help maintain an open chromatin configuration around transcribable genes. The protein has also been found to have antimicrobial activity against bacteria, viruses and fungi. [provided by RefSeq, Oct 2014]
Function	Binds to the inner side of the nucleosomal DNA thus altering the interaction between the DNA and the histone octamer. May be involved in the process which maintains transcribable genes in a unique chromatin conformation (By similarity). [UniProt]
Calculated Mw	9 kDa
PTM	Phosphorylation favors cytoplasmic localization. [UniProt]
Cellular Localization	Nucleus. Cytoplasm. Note=Cytoplasmic enrichment upon phosphorylation. [UniProt]

Images



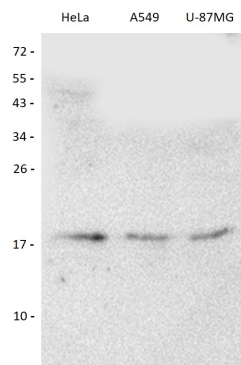
ARG59687 anti-HMGN2 antibody ICC/IF image

Immunofluorescence: MCF-7 cells were blocked with 10% goat serum and then stained with ARG59687 anti-HMGN2 antibody (red) at 2 µg/ml dilution, overnight at 4°C. DAPI (blue) for nuclear staining.



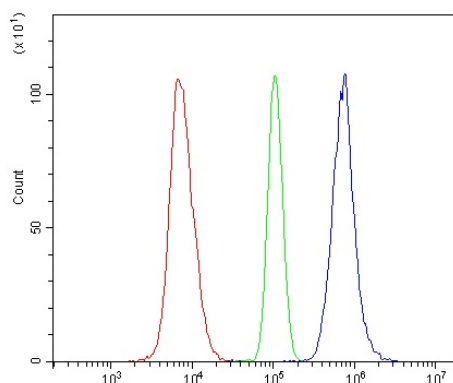
ARG59687 anti-HMGN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59687 anti-HMGN2 antibody at 2 µg/ml, overnight at 4°C.



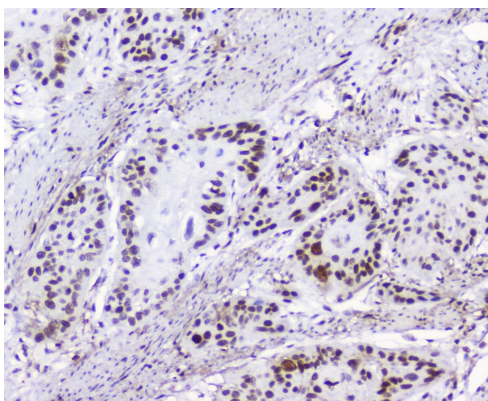
ARG59687 anti-HMGN2 antibody WB image

Western blot: 50 µg of samples under reducing conditions. HeLa, A549 and U-87MG whole cell lysates stained with ARG59687 anti-HMGN2 antibody at 0.5 µg/ml, overnight at 4°C.



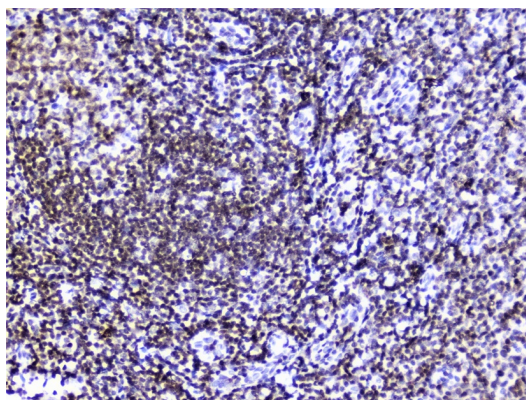
ARG59687 anti-HMGN2 antibody FACS image

Flow Cytometry: Raji cells were blocked with 10% normal goat serum and then stained with ARG59687 anti-HMGN2 antibody (blue) at 1 µg/10⁶ cells for 30 min at 20°C, followed by incubation with DyLight®488 labelled secondary antibody. Isotype control antibody (green) was rabbit IgG (1 µg/10⁶ cells) used under the same conditions. Unlabelled sample (red) was also used as a control.



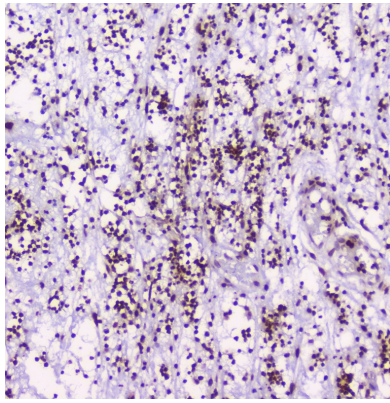
ARG59687 anti-HMGN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human oesophagus squama cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59687 anti-HMGN2 antibody at 2 µg/ml, overnight at 4°C.



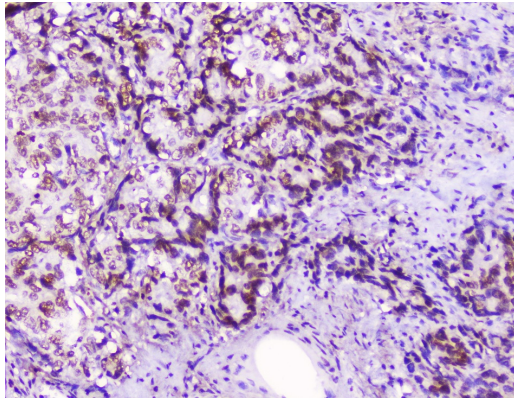
ARG59687 anti-HMGN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human tonsil tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59687 anti-HMGN2 antibody at 2 µg/ml, overnight at 4°C.



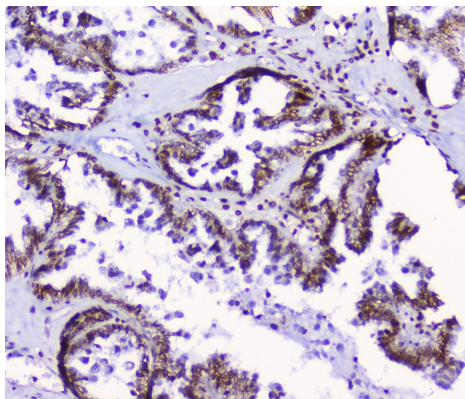
ARG59687 anti-HMGN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human appendicitis tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59687 anti-HMGN2 antibody at 2 µg/ml, overnight at 4°C.



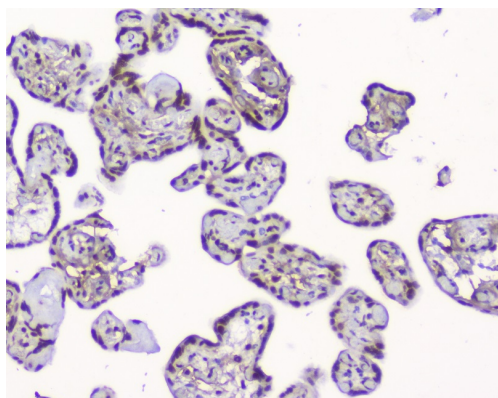
ARG59687 anti-HMGN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human gastric cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59687 anti-HMGN2 antibody at 2 µg/ml, overnight at 4°C.



ARG59687 anti-HMGN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovary cancer tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59687 anti-HMGN2 antibody at 2 µg/ml, overnight at 4°C.



ARG59687 anti-HMGN2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human placenta tissue. Antigen Retrieval: Heat mediation was performed in Citrate buffer (pH 6.0, epitope retrieval solution) for 20 min. The tissue section was blocked with 10% goat serum. The tissue section was then stained with ARG59687 anti-HMGN2 antibody at 2 µg/ml, overnight at 4°C.