

For Research Use Only

# HMG20B Monoclonal antibody

Catalog Number: 67354-1-Ig



## Basic Information

<b>Catalog Number:</b> 67354-1-Ig	<b>GenBank Accession Number:</b> BC002552	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1600 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 10362	<b>CloneNo.:</b> 4C2A9
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q9P0W2	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IHC: 1:1000-1:4000
<b>Isotype:</b> IgG1	<b>Full Name:</b> high-mobility group 20B	
<b>Immunogen Catalog Number:</b> AG6103	<b>Calculated MW:</b> 36 kDa	
	<b>Observed MW:</b> 40 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse, rat	<b>WB :</b> LNCaP cells, HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells
<b>Note-IHC:</b> suggested antigen retrieval with <b>TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IHC :</b> human skin cancer tissue,

## Background Information

CoREST (corepressor of repressor element-1-silencing transcription factor) is a chromatin- modifying complex that was first identified as a regulator of neuronal gene expression, having a essential role in neuronal differentiation (PMID:10449787). The CoREST complex is recruited by REST (RE1-silencing transcription factor) that recognizes the 21-nucleotide RE-1 sequence in the promoter of more than 1,700 different target genes in human and mouse (PMID:15240883). HMGB20B is one component of the CoREST complex, which mediates chromatin remodeling and repression of specific genes involved in neuronal differentiation through modulation of chromatin structure (PMID:19997604). The predicted molecular weight of the HMG20B protein is 36 kDa, while the molecular weight detected in the literature is approximately 40 kDa by SDS-PAGE (PMID: 36171271).

## Storage

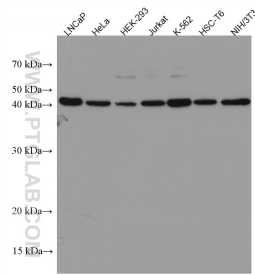
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

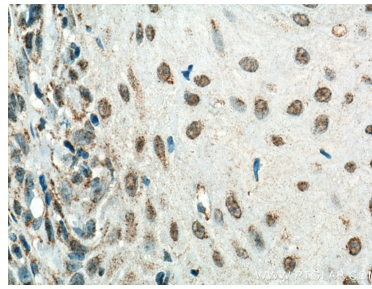
For technical support and original validation data for this product please contact:  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67354-1-Ig (HMG20B antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human skin cancer tissue slide using 67354-1-Ig (HMG20B antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).