

Nur für Forschungszwecke

# HMGB1 Polyklonaler Antikörper

Katalog-Nr.:10829-1-AP

Vorgestelltes Produkt

190 Publikationen



## Allgemeine Informationen

<b>Katalog-Nr.:</b> 10829-1-AP	<b>GenBank-Zugangsnummer:</b> BC003378	<b>Reinigungsmethode:</b> Antigen-Affinitätsreinigung
<b>Größe:</b> 150ul , Konzentration: 800 µg/ml von Nanodrop;	<b>GeneID (NCBI):</b> 3146	<b>Empfohlene Verdünnungen:</b> WB 1:1000-1:6000 IHC 1:50-1:500 IF 1:50-1:500
<b>Wirt:</b> Kaninchen	<b>Vollständiger Name:</b> high-mobility group box 1	
<b>Isotyp:</b> IgG	<b>Berechnete Masse:</b> 25 kDa	
<b>Immunogen Katalognummer:</b> AG1264	<b>Beobachtete Masse:</b> 30 kDa	

## Anwendungen

### Geprüfte Anwendungen:

IF, IHC, WB, ELISA

### In Publikationen genannte Anwendungen:

ChIP, CoIP, FC, IF, IHC, IP, RIP, WB

### Getestete Reaktivität:

Human, Maus, Ratte

### Zitierte Arten:

Human, Maus, Ratte, Zebrafisch

### Positivkontrollen:

**WB** : HepG2-Zellen, C6-Zellen, Jurkat-Zellen, K-562-Zellen, Mäusnierengewebe, Ratten-Magengewebe, RAW 264.7-Zellen

**IHC** : Maushirngewebe, humanes Mammakarzinomgewebe

**IF** : HeLa-Zellen,

**Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (\*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.**

## Hintergrundinformationen

The HMG (high mobility group) proteins are nonhistone chromosomal proteins that is present in almost all eukaryotic cells, and it functions to stabilize NUCLEOSOME formation and acts as a transcription-factor-like protein that regulates the expression of several genes[PMID: 18160415]. Once injury, infection or other inflammatory stimuli, activated macrophages, mature dendritic cells and natural killer cells can secrete HMGB1, which act as a crucial cytokine[PMID: 20163887]. HMGB1 also involved in V(D)J recombination by acting as a cofactor of the RAG complex, stimulating cleavage and RAG protein binding at the 23 bp spacer of conserved recombination signal sequences (RSS)[PMID: 19360789]. Act as a Heparin-binding protein that has a role in the extension of neurite-type cytoplasmic processes in developing cells. HMGB1 (high mobility group box 1) modulates gene expression in the nucleus, but certain immune cells secrete HMGB1 as an extracellular Alarmin to signal tissue damage. The nuclear HMGB1 relocates to the extracellular milieu in senescent human and mouse cells in culture and in vivo, which stimulated cytokine secretion through TLR-4 signaling (23649808). This antibody is a rabbit polyclonal antibody raised against full length HMGB1 of human origin. The monomeric HMGB1 is 29 kDa and dimer is 58 kDa.

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Lihua Luo	34593005	J Nanobiotechnology	WB
Xufeng Tao	25083618	Transplantation	WB
Yuanli Huang	34594133	Cancer Manag Res	IHC

## Lagerung

### Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

### Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

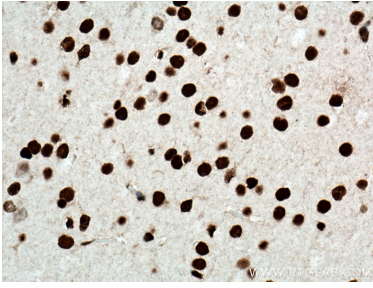
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

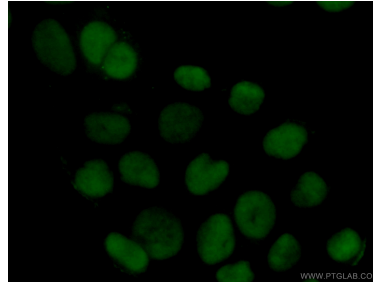
E: proteintech@ptglab.com  
W: ptglab.com

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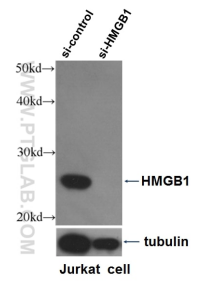
## Ausgewählte Validierungsdaten



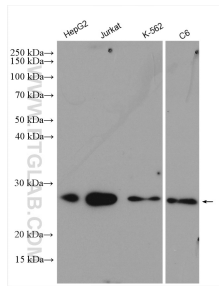
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10829-1-AP (HMGB1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 10829-1-AP (HMGB1 antibody) at dilution of 1:50 and CoraLite488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



WB result of HMGB1 antibody (10829-1-AP, 1:1500) with si-control and si-HMGB1 transfected Jurkat cells.



Various lysates were subjected to SDS PAGE followed by western blot with 10829-1-AP (HMGB1 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.