

HMGB1 Rabbit mAb

Catalog No: #48606



Package Size: #48606-1 50ul #48606-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

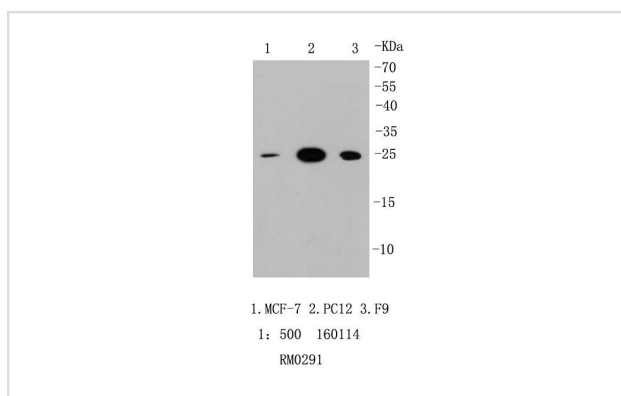
Description

Product Name	HMGB1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SA39-03
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	Amphoterin antibody Chromosomal protein, nonhistone, HMG1 antibody DKFZp686A04236 antibody High mobility group 1 antibody High mobility group box 1 antibody High mobility group protein 1 antibody High mobility group protein B1 antibody high-mobility group (nonhistone chromosomal) protein 1 antibody HMG-1 antibody HMG1 antibody HMG3 antibody HMGB 1 antibody HMGB1 antibody HMGB1_HUMAN antibody NONHISTONE CHROMOSOMAL PROTEIN HMG1 antibody SBP 1 antibody Sulfoglucuronyl carbohydrate binding protein antibody
Accession No.	Swiss-Prot#:P09429
Calculated MW	25 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

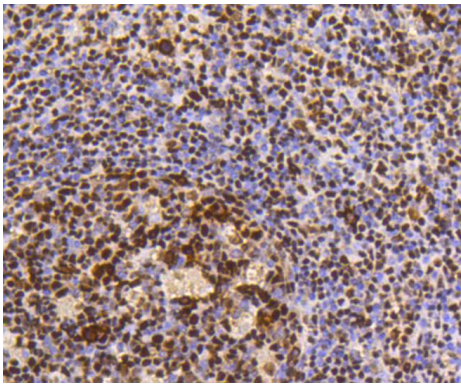
Application Details

WB: 1:1,000-5,000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:10-1:100

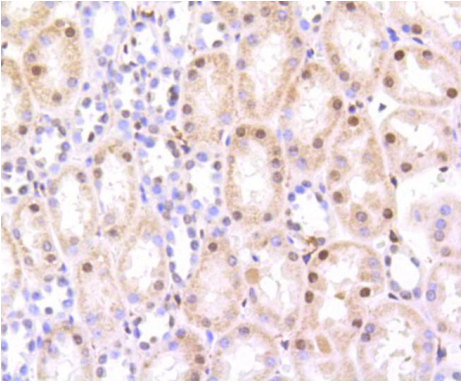
Images



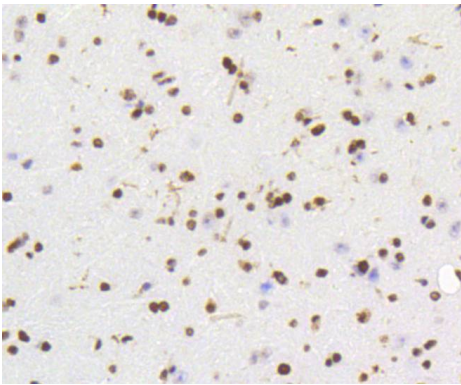
Western blot analysis of HMGB1 on different cell lysates using anti-HMGB1 antibody at 1/1,000 dilution. Positive control:
Lane 1: MCF-7 Lane 2: PC12 Lane 3: F9



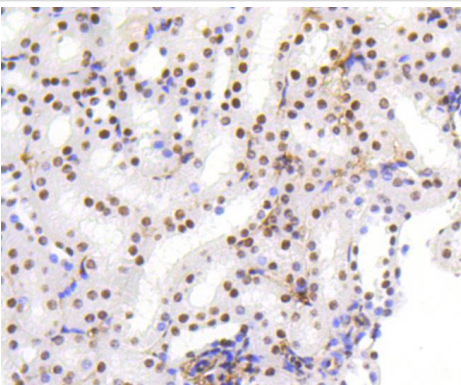
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



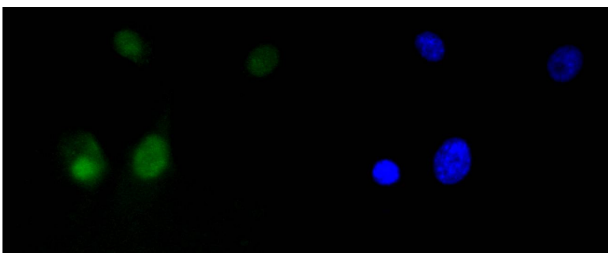
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



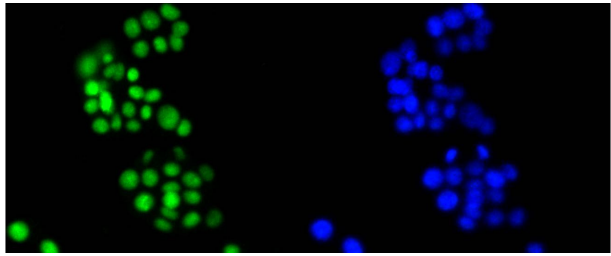
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



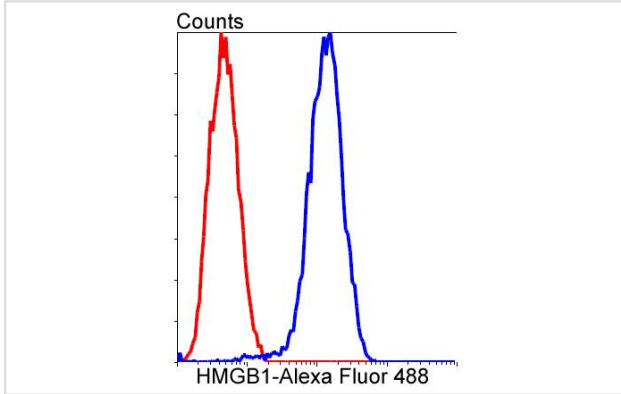
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



ICC staining HMGB1 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining HMGB1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of PC-12 cells with HMGB1 antibody at 1/50 dilution (blue) compared with an unlabelled control (cells without incubation with primary antibody; red). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody

Background

Like the histones, HMGB1, also known as high-mobility group protein 1 (HMG-1) is among the most important chromatin proteins. In the nucleus HMGB1 interacts with nucleosomes, transcription factors, and histones. This nuclear protein organizes the DNA and regulates transcription. After binding, HMGB1 bends DNA, which facilitates the binding of other proteins. HMGB1 is secreted by immune cells (like macrophages, monocytes and dendritic cells) through leaderless secretory pathway. Activated macrophages and monocytes secrete HMGB1 as a cytokine mediator of Inflammation. In recent research, HMGB1 has been reported as a novel biomarker for human ovarian cancer

References

1. "Novel role of PKR in inflammasome activation and HMGB1 release." Lu B., Nakamura T., Inouye K., Li J., Tang Y., Lundbaeck P., Valdes-Ferrer S.I., Olofsson P.S., Kalb T., Roth J., Zou Y., Erlandsson-Harris H., Yang H., Ting J.P., Wang H., Andersson U., Antoine D.J., Chavan S.S., Hotamisligil G.S., Tracey K.J. *Nature* 488:670-674(2012).
2. "The genetic variation of the human HMGB1 gene." Kornblit B., Munthe-Fog L., Petersen S., Madsen H., Vindeloev L., Garred P. *Tissue Antigens* 70:151-156(2007).

Published Papers

Jingyao Li;Huixi Yi;Yuanyuan Fu;Jiani Zhuang;Zhixiong Zhan;Liyu Guo;Ji Zheng;Xiyong Yu;Dong-Yang Zhang et al., Biodegradable iridium coordinated nanodrugs potentiate photodynamic therapy and immunotherapy of lung cancer., (2025)

[PMID:39488900](#)

Jingyao Lio Q Wenzhi Zhuo Q Qibao Zheng H Huixi Yio L Liyou Guo Q Zhixiong Zhan Q Nannan Fuo Q Muhammad Younis O Chengzhi Jino Q Junqiu Zhaio Q Dong-Yang Zhang et al., Ruthenium coordinated nanohybrids modulate tumor microenvironment and potentiate amplified phototherapy augmented immunotherapy of hypoxic tumor, *Materials Today Bio*, (2025)

[PMID:41340912](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.