



Catalog: OM626571

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HMGB1 [SA39-03]

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☐ 100 µl

Product profile

Product name	HMGB1 [SA39-03]
Antibody Type	Primary Antibodies
Product description	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
Immunogen	recombinant protein

Key Feature

Clonality	Monoclonal
Isotype	IgG
Host Species	Recombinant rabbit
Tested Applications	WB ,ICC/IF ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL

Target Information

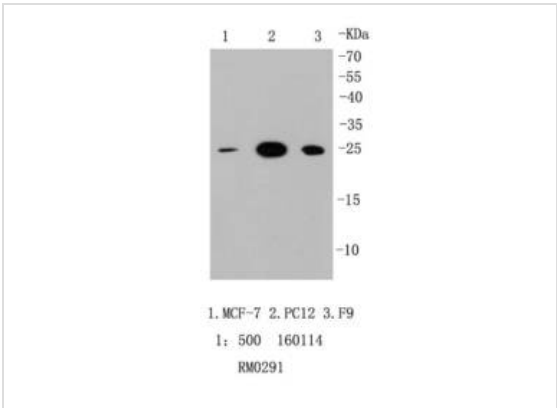
Alternative Names	Amphoterin antibody Chromosomal protein, nonhistone, HMG1 antibody DKFZp686A04236 antibody High mobility group 1 antibody High mobility group box 1 antibody High mobility group protein 1 antibody High mobility group protein B1 antibody high-mobility group (nonhistone chromosomal) protein 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
Molecular Weight (MW)	25 kDa

Cellular Localization Cytoplasm, Nucleus, Cell membrane, Secreted, Chromosome

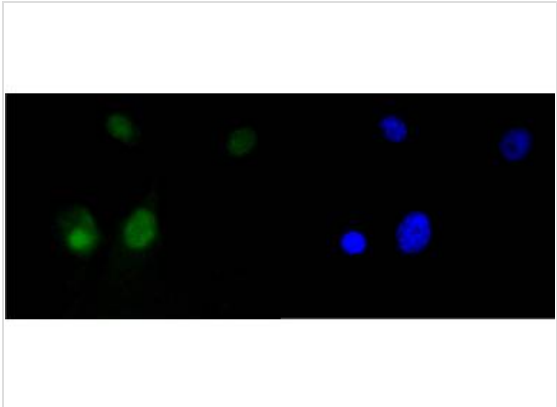
Database Links

SwissProt ID	P09429
	P63158
	P63159

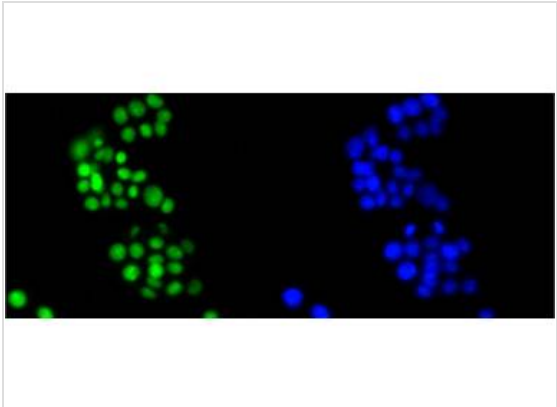
Application



Application
Fig1: 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

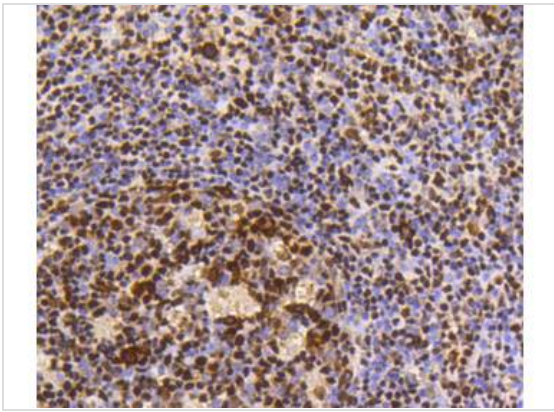


Application
Fig2: ICC staining HMGB1 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



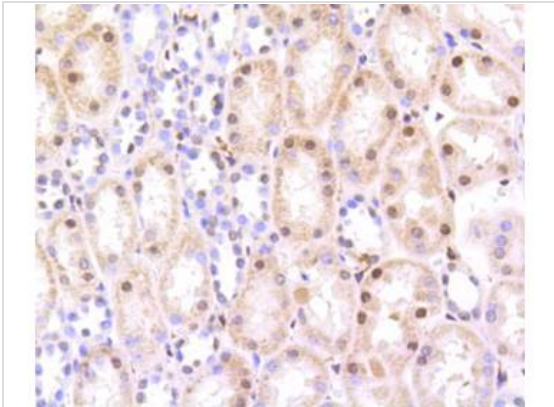
Application
Fig3: ICC staining HMGB1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Application
Fig4: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



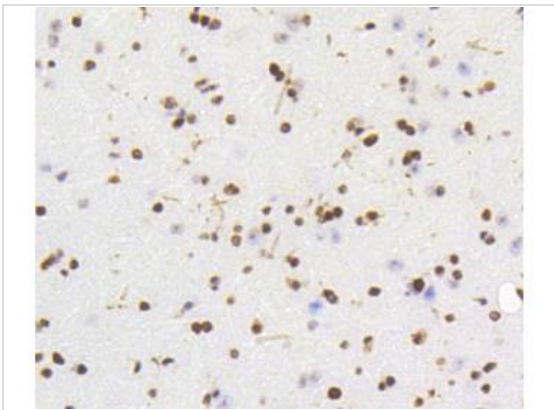
Application

Fig5: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



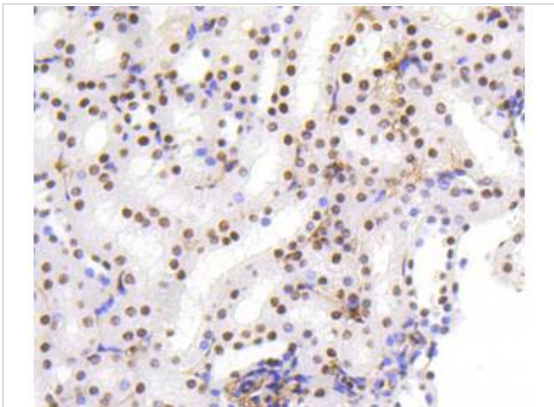
Application

Fig6: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



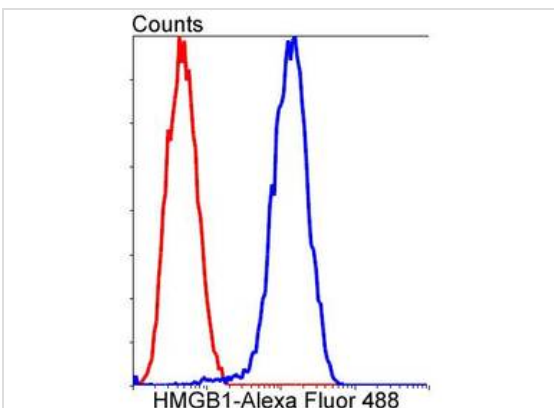
Application

Fig7: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.



Application

Fig8: 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..



Positive Control	NIH/3T3, MCF-7, PC12, F9, human tonsil tissue, mouse kidney tissue,mouse brain tissue, human kidney tissue.
Application Notes	WB: 1:1,000-1:5,000 ICC: 1:50-1:200 IHC: 1:50-1:200 FC: 1:10-1:100

Additional Information

Form	Liquid
Storage Instructions	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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