Data Sheet (Cat.No.TMAC-01981)

Anti-HMGB1 Antibody (5H227)

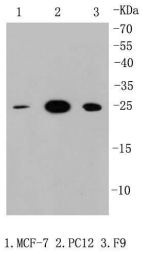
Product Details

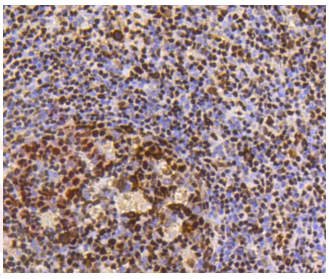
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 25 kDa.
Clone:	5H227
Purification:	ProA affinity purified

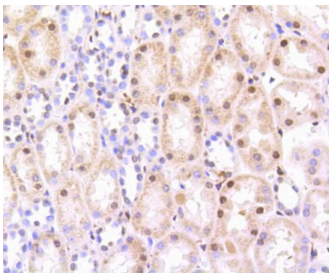
Applications

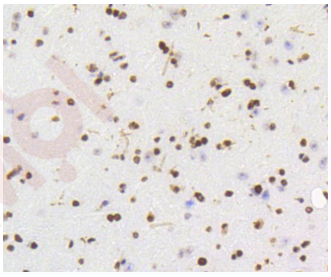
Verified Activity:

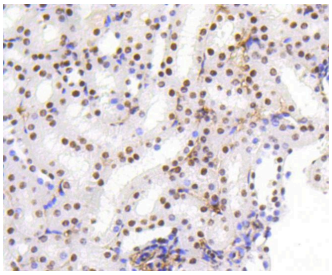
1. Western blot analysis of HMGB1 on different cell lysates using anti-HMGB1 antibody at 1/1, 000 dilution. Positive control: Lane 1: MCF-7, Lane 2: PC12, Lane 3: F9.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-HMGB1 antibody. Counter stained with hematoxylin.
6. 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.
7. 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.
8. 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.

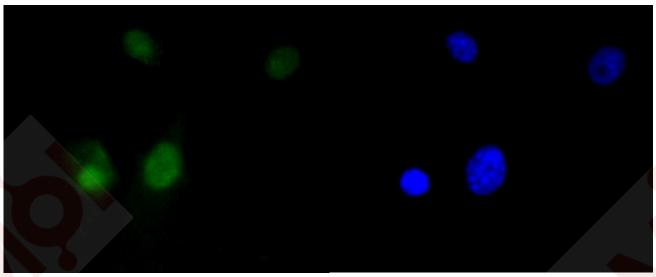


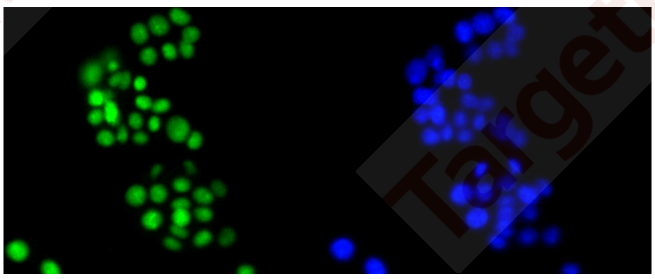


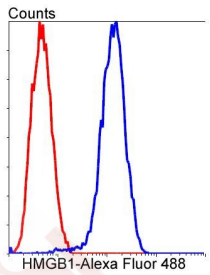












Application: FCM,ICC/IF,IHC,WB

Recommended: WB: 1:1000-5000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:10-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P09429

Synonyms: HMG3;HMG-1;SBP-1;HMG1;HMGB1

Research 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

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