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10-4025: Monoclonal Antibody to HMGB1 (Clone: ABM2E44)

Clonality :	Monoclonal
Clone Name :	ABM2E44
Application :	FACS,WB
Reactivity :	Human
Gene :	HMGB1
Gene ID :	3146
Uniprot ID :	P09429
Format :	Purified
Alternative Name :	HMGB1,HMG1
Isotype :	Mouse IgG2b Kappa
Immunogen Information :	A partial length recombinant HMGB1 protein (amino acids 1- 200 was used as the immunogen for this antibody.

Description

HMGB1 (High-mobility group protein B1) is a 25 kDa non-histone chromatin protein, secreted by immune cells through leaderless secretory pathway. HMGB1 supports transcription and also interacts with nucleosomes to loosen packed DNA and remodel the chromatin. The presence of HMGB1 in the nucleus depends on posttranslational modifications. When the protein is not acetylated, it stays in the nucleus, but hyperacetylation on lysine residues causes it to translocate into the cytosol. HMGB1 has the ability to bend DNA in order to facilitate binding of other proteins to the DNA. HMGB1 has one important role in V(D)J recombination where act as a cofactor of the RAG complex. HMGB1 stimulates a plethora of cellular responses like inflammation, attracting inflammatory cells, recruiting stem cells and promoting their proliferation. HMGB1 is highly expressed in human kidney, tonsils, adipose tissue, adrenal cortex and amniotic fluid.

Product Info

Amount :	25 µg / 100 µg
Purification :	Protein G Chromatography
Content :	25 µg in 50 µl/100 µg in 200 µl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Western blot analysis: 2-4 µg/ml, Flowcytometric analysis: 2-4/10^6 Cells

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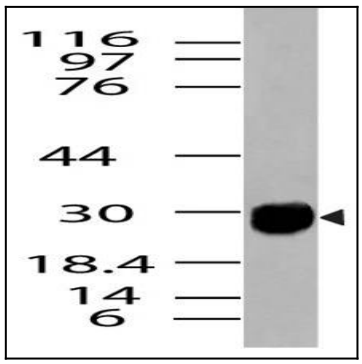

Fig-1: Western blot analysis of HMGB1. Anti- HMGB1 antibody (Clone: ABM2E44) was used at 2 µg/ml HepG2 lysate.

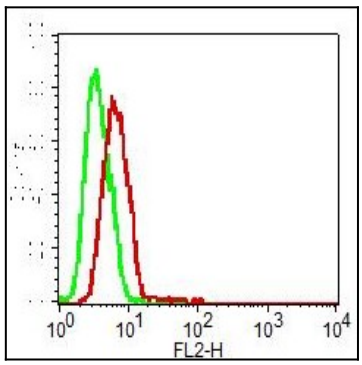

Figure 2: Intracellular staining of HeLa cells. Green represents Isotype control. Red represents Anti-HMGB1 (10-4025). 2 µg antibodies were used. Goat anti-mouse PE was used as secondary antibody.

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