Datasheet for ABIN1176834

anti-HMGB1 antibody

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Overview

Quantity:	50 µg
Target:	HMGB1
Reactivity:	Mammalian
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This HMGB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Blocking Antibody (Inhibition), Cellular Assay (CA)

Product Details

Immunogen:	17-mer peptide KGKPDAAKKGVVKAEKS
Clone:	DPH1-1
Isotype:	IgG1

Target Details

Target:	HMGB1
Alternative Name:	High-mobility group protein B1 (HMGB1) (HMGB1 Products)
Background:	DPH1.1 mAb recognizes all mammalian HMGB1s, including human, mouse and rat. Does not recognize HMGB2. DPH1.1 mAb can be used for Western blot (WB), immunofluorescence (IHF) and immunohistochemistry (IHC). DPH1.1 mAb blocks HMGB1-elicited cell migration in trans-well migration assays. In vivo, DPH1.1 mAb administered intravenously (220 µg/mouse) blocks

Target Details

	recruitment of inflammatory cells to sites of necrosis and infection. The mouse monoclonal IgG1 DPH1.1 was generated by injecting C57BL/6 mice with the 17-mer peptide KGKPDAAKKGVVKAEKS. Hybridomas were produced from splenocytes by standard techniques and tested by ELISA against the immunogen and full-length HMGB1.
Pathways:	p53 Signaling, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Toll-Like Receptors Cascades, Smooth Muscle Cell Migration, Inflammasome

Application Details

Application Notes:	WB: 1 µg/ml antibody in 5% milk TBS-T overnight at 4°C. Migration assay: 0.5/1/2/5 µg/ml of DPH1.1 mAb is added to 30 ng/ml of rHMGB1, according to Palumbo et al. “Extracellular HMGB1, a signal of tissue damage, induces mesoangioblast migration and proliferation”.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Handling Advice:	DPH1.1 mAb is provided freeze-dried.
Storage:	-20 °C

Publications

Product cited in:	Han, Yuan, Deng, He, Zhang, Shen, Chen, Qian: "Metformin decreases LPS-induced inflammatory response in rabbit annulus fibrosus stem/progenitor cells by blocking HMGB1 release." in: **Aging**, Vol. 11, Issue 22, pp. 10252-10265, (2020) (PubMed).

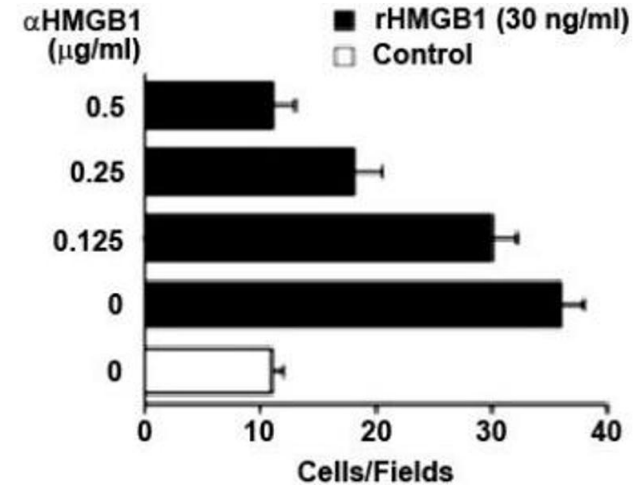

Image 1.

Western Blotting

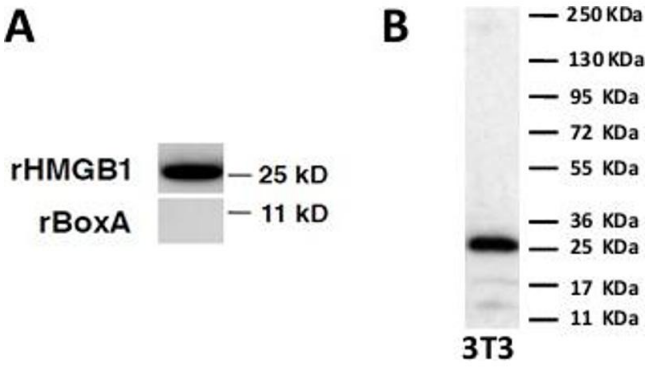

Image 2. Western Blot on recombinant HM GB1 and Box A. (B): Western Blot of 100 µg extract. From 3T3 mouse cells.

Immunohistochemistry

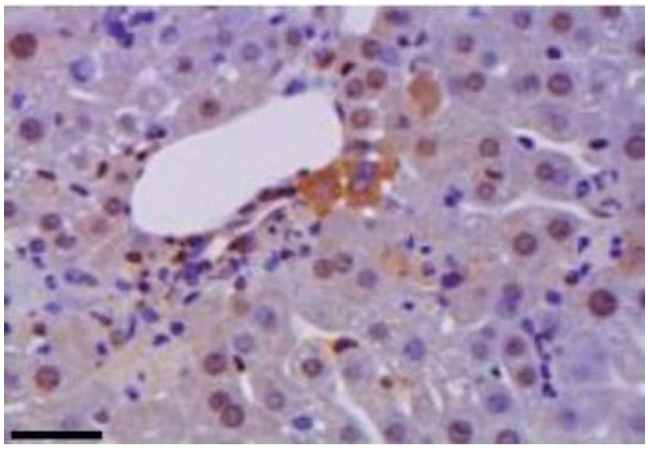

Image 3. Representative immunohistochemistry of HM GB1 (brown) in liver during hepatitis.

Please check the product details page for more images. Overall 4 images are available for ABIN1176834.