

## MONOCLONAL anti-HMGB1 Ab (DPH1.1 mAb)

**Product Number:** HM-901, HM-902; HM-903;

**Expiration date:** (depends on batch)

**Batch number:** (each batch has a specific tracking number)

**Batch concentration:** (depends on batch) after addition of (depends on batch) of distilled water.

### **Product Description:**

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 recruitment of inflammatory cells to sites of necrosis and infection.

### **Reagent format:**

DPH1.1 mAb is provided lyophilized.

**Storage:** -20°C.

### **How to use product:**

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*".

J Cell Biol 2004, 164: 441-9

### **Product Information:**

The mouse monoclonal IgG1 DPH1.1 was generated by injecting C57BL/6 mice with the 17-mer peptide KGKPDAAKKGVVKAEEKS.

Hybridomas were produced from splenocytes by standard techniques and tested by ELISA against the immunogen and full-length HMGB1.

### **This product is for research use only.**

### **References:**

Scaffidi P, Misteli T, Bianchi ME (2002) Release of chromatin protein HMGB1 by necrotic cells triggers inflammation. *Nature* 418: 191-195.

Palumbo R, et al. (2009) Src family kinases are necessary for cell migration induced by extracellular HMGB1. *J Leukoc Biol* 86: 617-623.

Sitia G, et al. (2011) Kupffer cells hasten resolution of liver immunopathology in mouse models of viral hepatitis. *PLoS Pathog* 7: e1002061

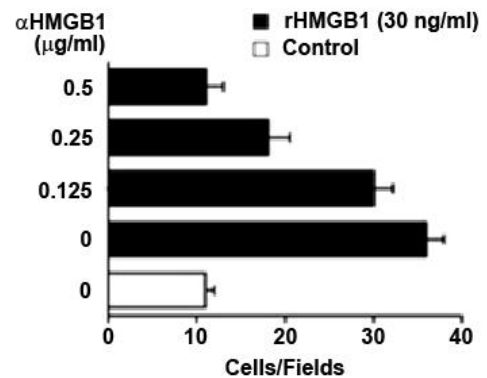


Fig. 1. Migration assay

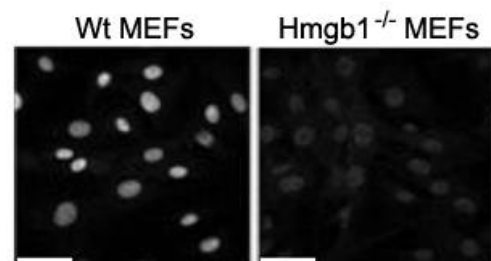


Fig. 2. Immunofluorescence

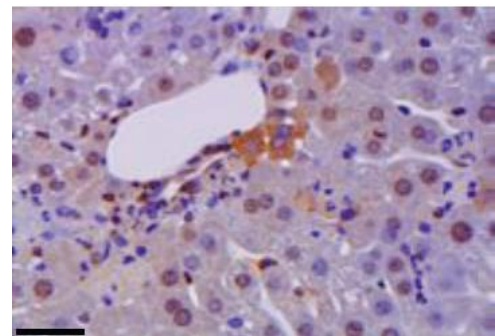


Fig 3. Representative immunohistochemistry of HMGB1 (brown) in liver during hepatitis.

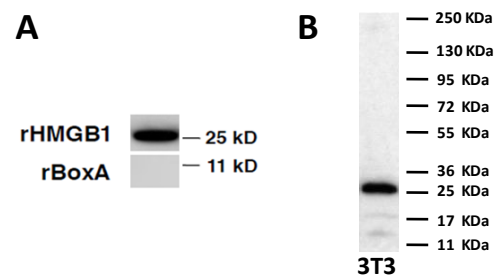


Fig 4. (A): Western Blot on recombinant HMGB1 and BoxA. (B): Western Blot of 100 µg extract from 3T3 mouse cells