MONOCLONAL anti-HMGB1 Ab (*DPH1.1 mab*)

Product Number: ********** ******
Expiration date: ********** ******
Batch number: ********** ******
Batch concentration: **** mg/mL after addition of **** µL 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) 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.
DPH1.1 isotype: IgG1.

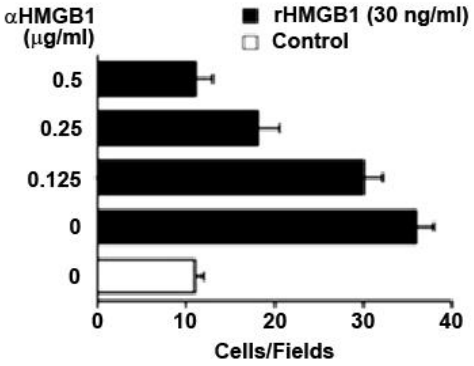

Fig. 1. Migration assay

Reagent format:
The lyophilized protein once reconstituted will be dissolved in a solution containing Na_3PO_4 50mM and NaCl 0.15M pH 7.4.
Storage: 2-8°C. The product once resuspended can be stored frozen (-20°C), thawed and re-frozen.

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

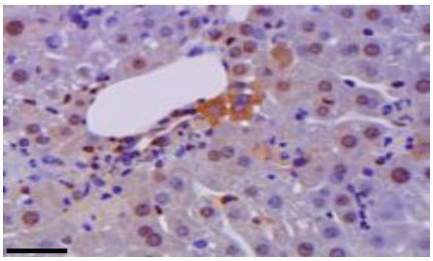

Fig. 2. Representative immunohistochemistry of HMGB1 (brown) in liver during hepatitis.

Product information:
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.

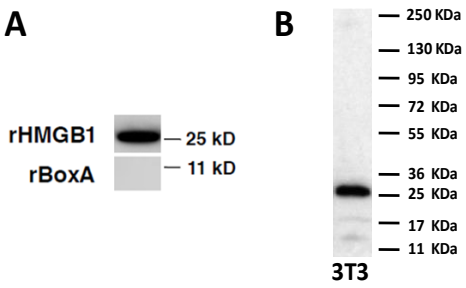

Fig. 3. (A): Western Blot on recombinant HMGB1 and BoxA. (B): Western Blot of 100 µg extract from 3T3 mouse cells

This product is for research use only

References:

- Chen M. *et al* (2021) HMGB1, anti-HMGB1 antibodies, and ratio of HMGB1/anti-HMGB1 antibodies as diagnosis indicator in fever of unknown origin. Sci Rep 3;11(1):5059
- Jin Wang J. *et al* (2020) The Anti-inflammatory Effects of HMGB1 Blockades in a Mouse Model of Cutaneous Vasculitis Front Immunol 11:2032
- Scaffidi P. *et al* (2002) Release of chromatin protein HMGB1 by necrotic cells triggers inflammation. Nature 418: 191-195.