

Mouse Anti-HMGB1, 2 Monoclonal Antibody

PRODUCT INFORMATION

Product Number: 326052240
Isotype: Mouse IgG₁
Contents: 50 µg antibody in 50 µL PBS (pH 7.2)
Storage: Below -20°C; avoid repeated freeze/thaw cycles.

BACKGROUND

HMGB1 and HMGB2 are chromatin-associated nuclear proteins that play an important role in transcription and DNA recombination. HMG proteins contain a highly acidic C-terminal domain as well as two evolutionarily conserved high mobility group (HMG) box motifs as their N-terminus¹. HMG boxes are found in numerous DNA binding proteins and transcription factors and allow HMG proteins to bind and to bend DNA². Especially, HMGB1 is known as amphoterin, it mediates neurite outgrowth, and it binds receptors for advanced glycation end products (RAGE)³. Recently, HMGB1 was unexpectedly identified as a cytokine through studies of endotoxemia and sepsis⁴.

SPECIFICITY AND PREPARATION

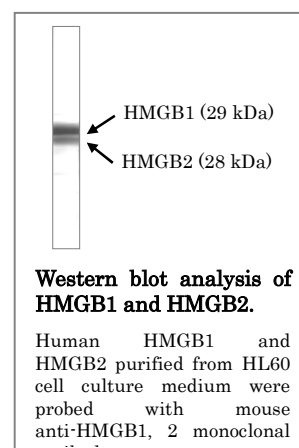
The antibody recognizes human, rabbit, bovine, pig, rat, and mouse HMGB1 and HMGB2. The specificity of the antibody was confirmed by western blot analysis. A hybridoma of the antibody was established by fusion of mouse myeloma cell P3U1 and BALB/c mouse spleen cell immunized with recombinant human HMGB1. This antibody was purified from the cell culture medium using Protein A Sepharose.

USAGE

Western blotting: 1-2 µg/mL

CAUTION

For research use only.
Not for diagnostic and therapeutic use.



REFERENCES

1. Bustin M and Reeves R. High-mobility-group chromosomal proteins: architectural components that facilitate chromatin function. *Prog Nucleic Acid Res Mol Biol* 1996; **54**: 35-100.
2. Baxevanis A. D and Landsman D. The HMG-1 box protein family: classification and functional relationships. *Nucleic Acids Res* 1995; **23**: 1604-1613.
3. Hori O *et al*. The receptor for advanced glycation end products (RAGE) is a cellular binding site for amphoterin. *J Biol Chem* 1995; **270**: 25752-25761.
4. Wang H *et al*. HMG-1 as a late mediator of endotoxin lethality in mice. *Science* 1999; **285**: 248-251.

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