Recombinant HMGB2 Monoclonal Antibody

catalog number: **AN301821L**

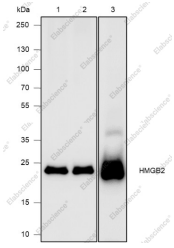
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	Recombinant human HMGB2 fragment
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111443
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:500-1:1000
IHC	1:50-1:100
IF	1:50
IP	1:25-1:50

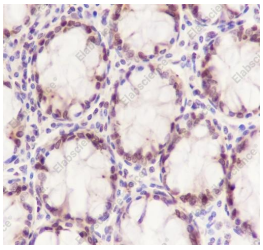
Data



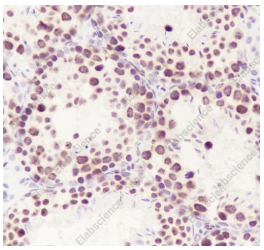
Western Blot with HMGB2 Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: HepG2, Lane 3: PC-12

Observed-MW:24 kDa

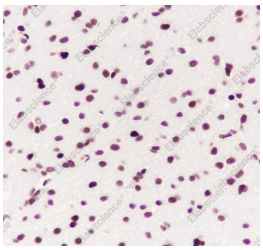
Calculated-MW:24 kDa



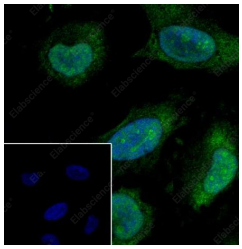
Immunohistochemistry of paraffin-embedded Human colon using HMGB2 Monoclonal Antibody at dilution of 1:100.

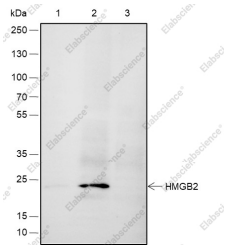


Immunohistochemistry of paraffin-embedded Mouse testis using HMGB2 Monoclonal Antibody at dilution of 1:100.



Immunohistochemistry of paraffin-embedded Rat cerebrum using HMGB2 Monoclonal Antibody at dilution of 1:100.





Immunofluorescent analysis of (4% Paraformaldehyde) fixed HeLa cells using anti-HMGB2 Monoclonal Antibody at dilution of 1:50.

Immunoprecipitation analysis using anti-HMGB2 Monoclonal Antibody. Western blot was performed from the immunoprecipitate using HMGB2 Monoclonal Antibody at a dilution of 1:50. Lane 1: 10% Input, Lane 2: HMGB2 Monoclonal Antibody, Lane 3: Rabbit monoclonal IgG Isotype

Observed-MW:24 kDa

Calculated-MW:24 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

HMGB2 belongs to a family of highly conserved proteins that contain HMG box domains. HMGB2 is widely expressed during embryonic development, but it is restricted to lymphoid organs and testis in adult animals. HMGB2 facilitate the binding of Hox proteins, Oct proteins, p53, Rel proteins, and steroid hormone receptor proteins to their target gene promoters. Furthermore, HMGB2 interacts with RAG1 to facilitate RAG complex binding to the recombinant signal sequence (RSS) and stimulate DNA-bending and subsequent VDJ cleavage at antigen receptor genes. In addition to their functions in the nucleus, HMGB proteins play a significant role in extracellular signaling associated with inflammation. HMGB2 is secreted by myeloid cells and promotes proliferation and migration of endothelial cells by binding to the receptor for advanced glycation end products (RAGE).