Product Name: KD-Validated High Mobility Group Box 2 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01229

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 24.0kDa

Antigen Information

Gene Name	HMGB2
Alternative Names	HMGB2; High Mobility Group Box 2; HMG2; High-Mobility Group (Nonhistone Chromosomal) Protein 2; High Mobility Group Protein B2; High Mobility Group Protein 2; HMG-2; High-Mobility Group Box 2
Gene ID	3148.0
SwissProt ID	P26583
Immunogen	A synthesized peptide derived from human HMGB2

Background

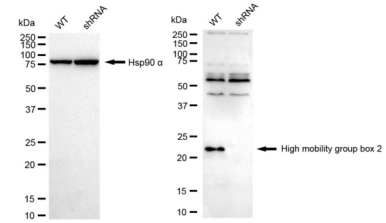
This gene encodes a member of the non-histone chromosomal high mobility group protein family. The proteins of this family

are chromatin-associated and ubiquitously distributed in the nucleus of higher eukaryotic cells. In vitro studies have demonstrated that this protein is able to efficiently bend DNA and form DNA circles. These studies suggest a role in facilitating cooperative interactions between cis-acting proteins by promoting DNA flexibility. This protein was also reported to be involved in the final ligation step in DNA end-joining processes of DNA double-strand breaks repair and V(D)J recombination. [provided by RefSeq, Jul 2008]

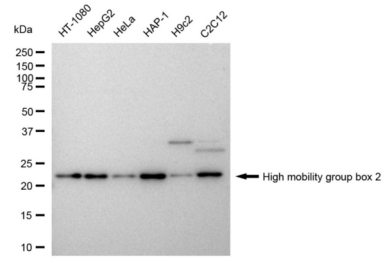
Research Area

Epigenetics and Nuclear Signaling

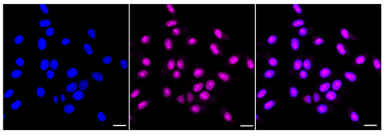
Image Data



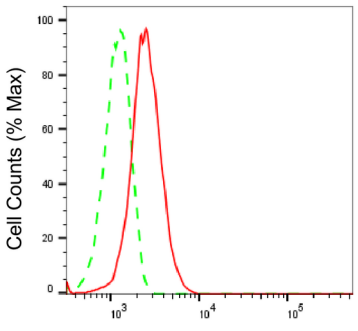
Western blotting analysis using high mobility group box 2 antibody (KVAb01229). High mobility group box 2 expression in wild type (WT) and high mobility group box 2 (HMGB2) shRNA knockdown (KD) HT-1080 cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with high mobility group box 2 antibody (KVAb01229, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using high mobility group box 2 antibody (KVAb01229). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with high mobility group box 2 antibody (KVAb01229, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HepG2 cells with High mobility group box 2 antibody (KVAb01229, 1:1,000). Nuclei were stained blue with DAPI; High mobility group box 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of High mobility group box 2 expression in HepG2 cells using High mobility group box 2 antibody (KVAb01229, 1:2,000). Green, isotype control; red, High mobility group box 2.