

Allgemeine Informationen

Katalog-Nr.: 68185-1-Ig	GenBank-Zugangsnummer: BC000903	Reinigungsmethode: Protein-G-Reinigung
Größe: 150ul , Konzentration: 1000 µg/ml von3148 Nanodrop;	GeneID (NCBI): 3148	CloneNo.: 1A7F10
Wirt: Maus	Vollständiger Name: high-mobility group box 2	Empfohlene Verdünnungen: WB 1:5000-1:50000
Isotyp: IgG1	Berechnete Masse: 24 kDa	
Immunogen Katalognummer: AG7989	Beobachtete Masse: 24-28 kDa	

Anwendungen

Geprüfte Anwendungen: WB, ELISA	Positivkontrollen: WB : LNCaP-Zellen, HEK-293-Zellen, HeLa-Zellen, Jurkat-Zellen, MCF-7-Zellen, NIH/3T3-Zellen
Getestete Reaktivität: Human, Maus, Ratte	

Hintergrundinformationen

High mobility group protein B2 (HMGB2) belongs to a family of highly conserved proteins that contain HMG box domains (11246022,14871457). All three family members (HMGB1, HMGB2, and HMGB3) contain two HMG box domains and a C-terminal acidic domain. HMGB1 is a widely expressed and highly abundant protein (14871457). HMGB2 is widely expressed during embryonic development, but it is restricted to lymphoid organs and testis in adult animals (11262228). HMGB3 is only expressed during embryogenesis (9598312). While expression varies, the biochemical properties of the different family members may be indistinguishable. The HMG box domains facilitate the binding of HMGB proteins to the minor groove of DNA, which results in local bending of the DNA double helix. HMGB proteins are recruited by and help facilitate the assembly of site-specific DNA binding proteins to their cognate binding sites in chromatin. For example, HMGB1 and HMGB2 facilitate the binding of Hox proteins, Oct proteins, p53, Rel proteins, and steroid hormone receptor proteins to their target gene promoters (11246022,14871457). 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 (19317908,10490593). 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 endproducts (RAGE) (19811285). Research studies have shown that HMGB2 overexpression in hepatocellular carcinoma is associated with poor prognosis and shorter survival time (20851854). The calculated molecular weight of HMGB2 is 24 kDa, and the post-modification of HMGB2 is about 33-35 kDa. (18218727)

Lagerung

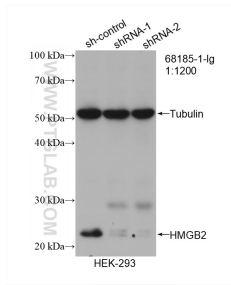
Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
 Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

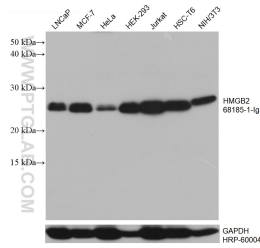
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Ausgewählte Validierungsdaten



WB result of HMGB2 antibody (68185-1-Ig; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-HMGB2 transfected HEK-293 cells.



Various lysates were subjected to SDS PAGE followed by western blot with 68185-1-Ig (HMGB2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.