

Allgemeine Informationen

Katalog-Nr.: 15605-1-AP	GenBank-Zugangsnummer: BC000903	Reinigungsmethode: Antigen-Affinitätsreinigung
Größe: 150ul , Konzentration: 260 µg/ml von Nanodrop und 167 µg/ml durch die Bradford-Methode mit BSA als Standard;	GeneID (NCBI): 3148	Empfohlene Verdünnungen: WB 1:500-1:2400 IHC 1:20-1:200
Wirt: Kaninchen	Vollständiger Name: high-mobility group box 2	
Isotyp: IgG	Berechnete Masse: 24 kDa	
Immunogen Katalognummer: AG7989	Beobachtete Masse: 24-28 kDa	

Anwendungen

Geprüfte Anwendungen: IHC, WB,ELISA	Positivkontrollen: WB : HEK-293-Zellen, IHC : humanes Lymphomgewebe,
Getestete Reaktivität: Human, Maus, Ratte	

Hinweis-IHC: Antigenmaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigenmaskierung auch mit Citratpuffer pH 6,0 erfolgen.

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). This antibody recognizes the phosphorylation form of HMGB2 protein. HMGB2 are highly homologous 80% 25 to 30 kDa proteins that belong to the HMGB subgroup of the HMG proteins. (PMID: 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

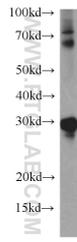
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
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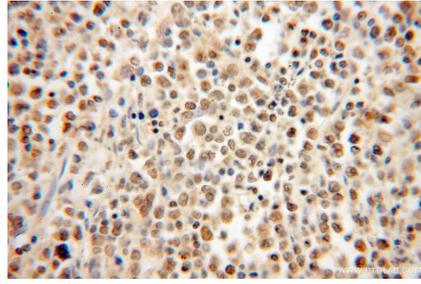
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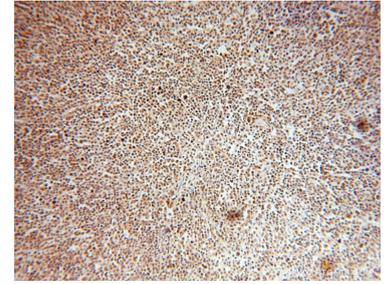
Ausgewählte Validierungsdaten



HEK-293 cells were subjected to SDS PAGE followed by western blot with 15605-1-AP (HMGB2 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lymphoma using 15605-1-AP (HMGB2 antibody) at dilution of 1:50 (under 40x lens).



Immunohistochemical analysis of paraffin-embedded human lymphoma using 15605-1-AP (HMGB2 antibody) at dilution of 1:50 (under 10x lens).