

À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-HMGB2



Numéro de catalogue: 14597-1-AP

Phare

13 Publications

Informations de base

Numéro de catalogue:
14597-1-AP

Taille:
150ul, Concentration: 900 µg/ml by Nanodrop and 400 µg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

Immunogen Catalog Number:
AG6135

Numéro d'acquisition GenBank:
BC001063

Identification du gène (NCBI):
3148
Nom complet:
high-mobility group box 2

MW calculé
24 kDa

MW observés:
33-35 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:500-1:3000
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IHC 1:50-1:500
IF 1:50-1:500

Applications

Applications testées:
IF, IHC, IP, WB, ELISA

Demandes citées:
IF, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, rat, souris

Remarque-IHC: il est suggéré de démasquer l'antigène avec un tampon de TE buffer pH 9.0; (*) A défaut, le démasquage de l'antigène peut être effectué avec un tampon citrate pH 6,0.

Contrôles positifs:

WB: cellules Jurkat, cellules HEK-293, cellules HL-60, cellules K-562, tissu de cerveau humain

IP: cellules HEK-293,

IHC: tissu cérébral de souris,

IF: cellules HepG2,

Informations générales

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. The calculated molecular weight of HMGB2 is 24 kDa, but the post-modification of HMGB2 is about 33-35 kDa. (PMID: 18218727)

Publications notables

Autrice	Pubmed ID	Journal	Application
Yiyong Wang	34699756	Eur J Pharmacol	WB
Guangfei Cui	30296520	Hum Pathol	WB,IHC
Kaiwen Zhang	34050127	Cell Death Dis	WB

Stockage

Stockage:

Stocker à -20°C. Stable pendant un an après l'expédition.

Tampon de stockage:

PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3

L'aliquotage n'est pas nécessaire pour le stockage à -20C

*** Les 20ul contiennent 0,1% de BSA.

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free) E: proteintech@ptglab.com

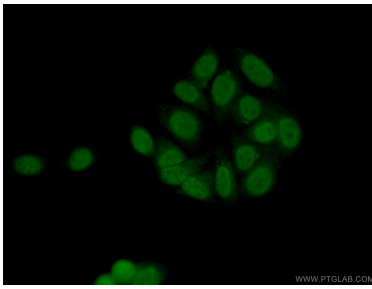
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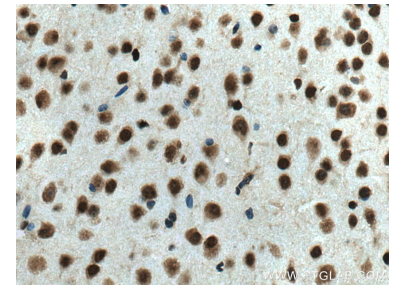
Données de validation sélectionnées



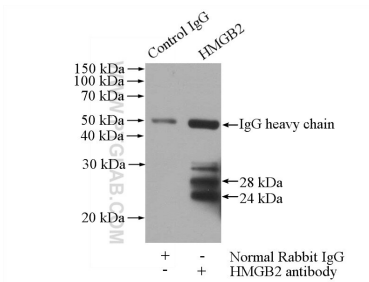
Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 14597-1-AP (HMGB2 antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Jurkat cells were subjected to SDS PAGE followed by western blot with 14597-1-AP (HMGB2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 14597-1-AP (HMGB2 antibody) at dilution of 1:100 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP Result of anti-HMGB2 (IP:14597-1-AP, 4ug; Detection:14597-1-AP 1:500) with HEK-293 cells lysate 1200ug.