Datasheet for ABIN2854997

anti-HMGB1 antibody

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Overview

Quantity:	100 µL
Target:	HMGB1
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMGB1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC), Immunohistochemistry (Whole Mount) (IHC (wm)), Immunohistochemistry (Free Floating) (IHC (ff))

Product Details

Immunogen:	Recombinant protein encompassing a sequence within the center region of human HMGB1. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Pig, Rat, Zebrafish (Danio rerio)
Characteristics:	Rabbit Polyclonal antibody to HMGB1 (high-mobility group box 1) HMGB1 antibody
Purification:	Purified by antigen-affinity chromatography.
Grade:	KO Validated

Target Details

Target:	HMGB1
Alternative Name:	high mobility group box 1 (HMGB1 Products)
Background:	DNA binding proteins that associates with chromatin and has the ability to bend DNA. Binds preferentially single-stranded DNA. Involved in V(D)J recombination by acting as a cofactor of the RAG complex. Acts by stimulating cleavage and RAG protein binding at the 23 bp spacer of conserved recombination signal sequences (RSS). Heparin-binding protein that has a role in the extension of neurite-type cytoplasmic processes in developing cells. Cellular Localization: Nucleus
Molecular Weight:	25 kDa
Gene ID:	3146
UniProt:	P09429
Pathways:	p53 Signaling, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Toll-Like Receptors Cascades, Smooth Muscle Cell Migration, Inflammasome

Application Details

Application Notes:	WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.
Comment:	Positive Control: NIH-3T3 , JC , BCL-1 , C2C12 , Raw264.7 , PC-12 , HMGB1-transfected 293T Validation: KO/KD, Orthogonal, Overexpression
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	0.46 mg/mL
Buffer:	1XPBS pH 7, 1 % BSA, 20 % Glycerol, 0.025 % ProClin 300
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

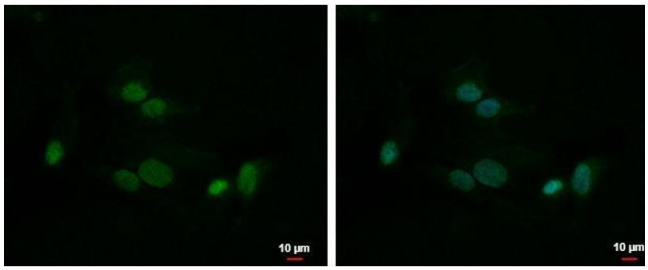
Handling

Storage:	4 °C,-20 °C
Storage Comment:	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

Publications

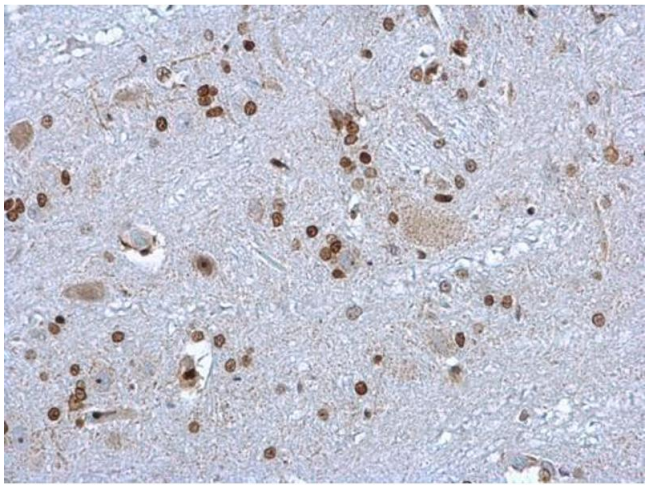
Product cited in:	Chen, Lin, Chen, Cheng, Cheng, Imai et al.: "Effect of prednisolone on glyoxalase 1 in an inbred mouse model of aristolochic acid nephropathy using a proteomics method with fluorogenic derivatization-liquid chromatography-tandem mass ..." in: **PLoS ONE**, Vol. 15, Issue 1, pp. e0227838, (2020) (PubMed). Dawson, Biggar, Storey: "Characterization of fructose-1,6-bisphosphate aldolase during anoxia in the tolerant turtle, Trachemys scripta elegans: an assessment of enzyme activity, expression and structure." in: **PLoS ONE**, Vol. 8, Issue 7, pp. e68830, (2014) (PubMed).

Images



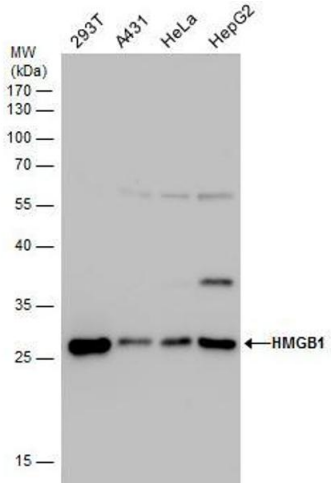
Immunofluorescence

Image 1. ICC/IF Image HMGB1 antibody detects HMGB1 protein at nucleus by immunofluorescent analysis. Sample: SK-N-SH cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: HMGB1 protein stained by HMGB1 antibody , diluted at 1:500. Blue: Hoechst 33342 staining. Scale bar = 10 µm.



Immunohistochemistry

Image 2. IHC-P Image HMGB1 antibody detects HMGB1 protein at nucleus on rat brain stem by immunohistochemical analysis. Sample: Paraffin-embedded rat brain stem. HMGB1 antibody , dilution: 1:1000.



Western Blotting

Image 3. WB Image HMGB1 antibody detects HMGB1 protein by western blot analysis. Various whole cell extracts (30 µg) were separated by 12% SDS-PAGE, and the membrane was blotted with HMGB1 antibody , diluted by 1:3000.

Please check the product details page for more images. Overall 12 images are available for ABIN2854997.