

Product datasheet for **AM09063PU-S**

HMG1 (HMGB1) Mouse Monoclonal Antibody [Clone ID: J2E1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	J2E1
Applications:	ELISA, IHC, WB
Recommended Dilution:	ELISA. Western blot (1:500 - 1:2,000), recommended starting dilution is 1:1,000. Immunohistochemistry (1:100 - 1:300), recommended starting dilution is 1:200.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Recombinant human HMGB1 (1-215aa) purified from High Five (Trichoplusia ni) insect cells.
Specificity:	The antibody recognizes human HMGB1. Other species not tested.
Formulation:	PBS, pH 7.4 containing 0.02% Sodium Azide and 10% Glycerol State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Protein-G affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	high mobility group box 1
Database Link:	Entrez Gene 3146 Human P09429



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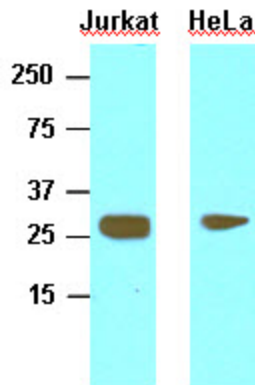
Background: High mobility group box1 protein (HMGB1) is a very abundant chromatin-binding protein residing in the eukaryotic cell nucleus and acting in the assembly of nucleoprotein complexes. Inside the cell, HMGB1 binds to DNA and has a role in transcriptional regulation. Outside the cell, HMGB1 acts as a cytokine and has activities that resemble those of tumor necrosis factor.

Synonyms: High mobility group protein 1, HMG1, HMG-1, High mobility group protein B1, HMGB-1, Amphoterin

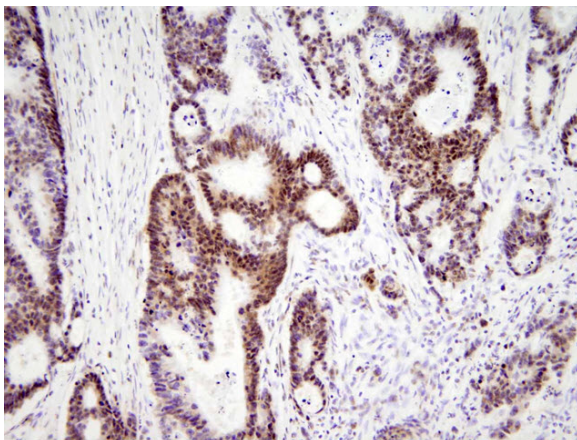
Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Base excision repair

Product images:



Western blot analysis: Cell lysates of Jurkat and HeLa (30 ug) were resolved by SDS-PAGE, transferred to NC membrane and probed with anti-human HMGB1 (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.



Human colon cancer tissue

Immunohistochemistry: Paraffin embedded sections of human colon cancer tissue were incubated with anti-human HMGB1 (1:200) for 2 hours at room temperature. Antigen retrieval was performed in 0.1 M sodium citrate buffer and detected using Diaminobenzidine (DAB).