

## Product datasheet for **TA350691S**

### **HMG1 (HMGB1) Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IHC, WB
<b>Recommended Dilution:</b>	WB: 500-2000 WB positive control: Human hepatocellular carcinoma tissue, Hela and Jurkat cells, 293T cells and human breast infiltrative duct tissue IHC: 50-200 Positive control: Human thyroid cancer Predicted cell location: Nucleus
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Synthetic peptide of human HMGB1
<b>Formulation:</b>	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
<b>Purification:</b>	Antigen affinity purification
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Predicted Protein Size:</b>	25 kDa
<b>Gene Name:</b>	high mobility group box 1
<b>Database Link:</b>	<a href="#">NP_002119</a> <a href="#">Entrez Gene 15289 Mouse</a> <a href="#">Entrez Gene 25459 Rat</a> <a href="#">Entrez Gene 3146 Human</a> <a href="#">P09429</a>



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**Background:**

High mobility group (HMG) proteins 1 and 2 are ubiquitous non-histone components of chromatin. Evidence suggests that the binding of HMG proteins to DNA induces alterations in the DNA architecture including DNA bending and unwinding of the helix. HMG proteins synergize with Oct-2, members of the NF $\kappa$ B family, ATF-2 and c-Jun to activate transcription. Other studies indicate that phosphorylation of HMG protein is required to stimulate the transcriptional activity of the protein. Human HMG-1 and HMG-2 both contain two DNA-binding domains, termed HMG boxes. HMG proteins bind single-stranded DNA but induce conformational changes in double-stranded DNA alone.

**Synonyms:**

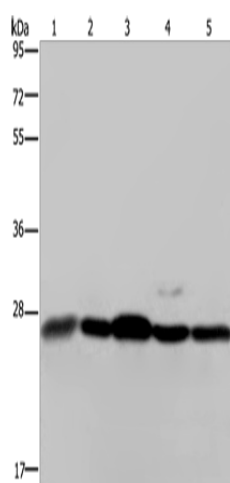
HMG1; HMG3; SBP-1

**Protein Families:**

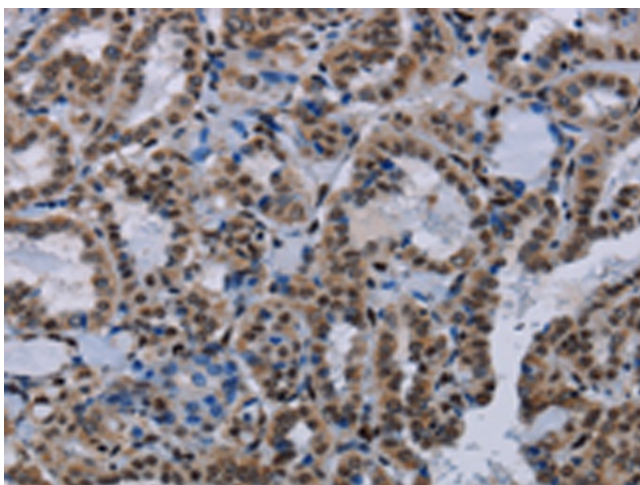
Druggable Genome, Stem cell - Pluripotency, Transcription Factors

**Protein Pathways:**

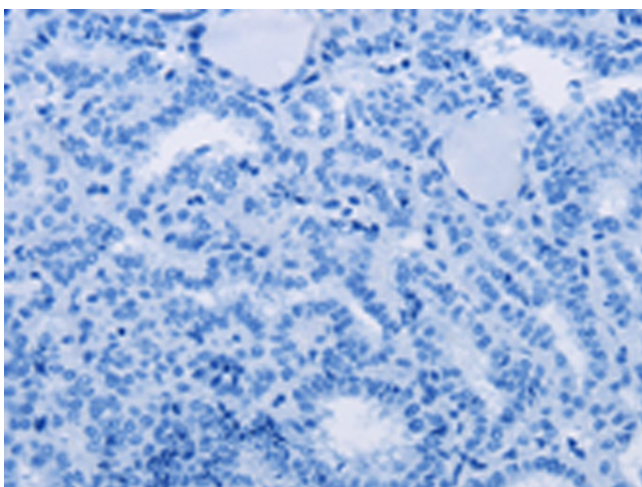
Base excision repair

**Product images:**


Gel: 10%SDS-PAGE  
 Lysate: 40  $\mu$ g  
 Lane 1-5: Human hepatocellular carcinoma tissue  
 HeLa cells  
 Jurkat cells  
 293T cells  
 human breast infiltrative duct tissue  
 Primary antibody: [TA350691] (HMGB1 Antibody) at dilution 1/200  
 Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution  
 Exposure time: 1 minute



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA350691] (HMGB1 Antibody) at dilution 1/30 (Original magnification:  $\times$ 200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA350691] (HMGB1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)