



href="http://www.uniprot.org/citations/19965638" target="\_blank">19965638</a>, PubMed:<a href="http://www.uniprot.org/citations/20123072" target="\_blank">20123072</a>, PubMed:<a href="http://www.uniprot.org/citations/7797075" target="\_blank">7797075</a>). 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) (By similarity). Proposed to be involved in the innate immune response to nucleic acids by acting as a promiscuous immunogenic DNA/RNA sensor which cooperates with subsequent discriminative sensing by specific pattern recognition receptors (By similarity). In the extracellular compartment acts as a chemokine. Promotes proliferation and migration of endothelial cells implicating AGER/RAGE (PubMed:<a href="http://www.uniprot.org/citations/19811285" target="\_blank">19811285</a>). Has antimicrobial activity in gastrointestinal epithelial tissues (PubMed:<a href="http://www.uniprot.org/citations/23877675" target="\_blank">23877675</a>). Involved in inflammatory response to antigenic stimulus coupled with pro-inflammatory activity (By similarity). Involved in modulation of neurogenesis probably by regulation of neural stem proliferation (By similarity). Involved in articular cartilage surface maintenance implicating LEF1 and the Wnt/beta-catenin pathway (By similarity).

#### Cellular Location

Nucleus. Chromosome. Cytoplasm. Secreted. Note=In basal state predominantly nuclear.

#### Tissue Location

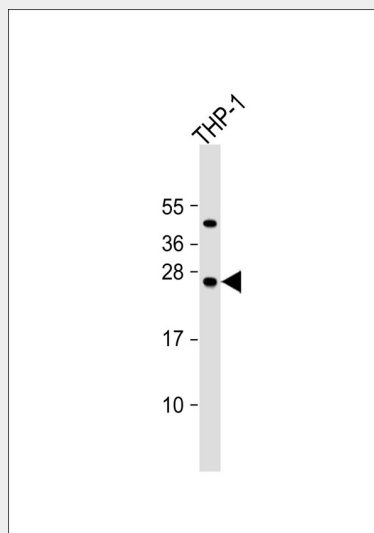
Expressed in gastric and intestinal tissues (at protein level).

#### HMGB2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### HMGB2 Antibody - Images



Anti-HMGB2 Antibody at 1:500 dilution + THP-1 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 24 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

### **HMGB2 Antibody - 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) (By similarity).

### **HMGB2 Antibody - References**

Majumdar A., et al. Nucleic Acids Res. 19:6643-6643(1991).  
Shirakawa H., et al. J. Biol. Chem. 267:6641-6645(1992).  
Kalnine N., et al. Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.  
Ota T., et al. Nat. Genet. 36:40-45(2004).  
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