

## Datasheet for ABIN7115011 **anti-HMGB2 antibody**

[Go to Product page](#)

### Overview

|              |                                                                                    |
|--------------|------------------------------------------------------------------------------------|
| Quantity:    | 100 µg                                                                             |
| Target:      | HMGB2                                                                              |
| Reactivity:  | Human, Mouse, Rat                                                                  |
| Host:        | Rabbit                                                                             |
| Clonality:   | Polyclonal                                                                         |
| Conjugate:   | This HMGB2 antibody is un-conjugated                                               |
| Application: | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP) |

### Product Details

|               |                                 |
|---------------|---------------------------------|
| Immunogen:    | high-mobility group box 2       |
| Isotype:      | IgG                             |
| Purification: | Immunogen affinity purified     |
| Purity:       | ≥95 % as determined by SDS-PAGE |

### Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | HMGB2                                                                                                                                                                                                                                                                                                                                                                  |
| Alternative Name: | HMGB2 ( <a href="#">HMGB2 Products</a> )                                                                                                                                                                                                                                                                                                                               |
| Background:       | Synonyms:HMG2 Background:Multifunctional protein with various roles in different cellular compartments. May act in a redox sensitive manner. In the nucleus is an abundant chromatin-associated non-histone protein involved in transcription, chromatin remodeling and V(D)J recombination and probably other processes. Binds DNA with a preference to non-canonical |

## Target Details

DNA structures such as single-stranded DNA. Can bent DNA and enhance DNA flexibility by looping thus providing a mechanism to promote activities on various gene promoters by enhancing transcription factor binding and/or bringing distant regulatory sequences into close proximity(PubMed:7797075, PubMed:11909973, PubMed:19522541, PubMed:18413230, PubMed:19965638, PubMed:20123072). 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:19811285). Has antimicrobial activity in gastrointestinal epithelial tissues(PubMed:23877675). Involved in inflammatory response to antigenic stimulus coupled with proinflammatory 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).

Molecular Weight: 33-35 kDa

Gene ID: 3148

UniProt: [P26583](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#)

## Application Details

Application Notes: WB: 1:500-1:2000, IP: 1:200-1:1000, IHC: 1:20-1:200

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: PBS with 0.02 % sodium azide and 50 % glycerol pH 7.3,

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Handling

---

|                  |                                                            |
|------------------|------------------------------------------------------------|
| Storage Comment: | -20°C for 12 months (Avoid repeated freeze / thaw cycles.) |
| Expiry Date:     | 12 months                                                  |