

## Datasheet for ABIN7464828 **anti-HMGB1 antibody**



[Go to Product page](#)

### Overview

|              |                                                                                                                                                                                                  |
|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                                                                                                                                           |
| Target:      | HMGB1                                                                                                                                                                                            |
| Reactivity:  | Human                                                                                                                                                                                            |
| Host:        | Mouse                                                                                                                                                                                            |
| Clonality:   | Monoclonal                                                                                                                                                                                       |
| Conjugate:   | This HMGB1 antibody is un-conjugated                                                                                                                                                             |
| Application: | Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry<br>(Frozen Sections) (IHC (fro)) |

### Product Details

|                   |                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| Immunogen:        | Recombinant protein encompassing a sequence within the center region of human HMGB1.<br>The exact sequence is proprietary. |
| Clone:            | GT383                                                                                                                      |
| Isotype:          | IgG2b                                                                                                                      |
| Cross-Reactivity: | Human, Mouse, Rat                                                                                                          |
| Purification:     | Affinity purified by Protein G.                                                                                            |
| Grade:            | KO Validated                                                                                                               |

### Target Details

|         |       |
|---------|-------|
| Target: | HMGB1 |
|---------|-------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | high mobility group box 1 ( <a href="#">HMGB1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Background:       | High mobility group box 1 , HMG-1 , HMG1 , HMG3 , SBP-1,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. |
| Molecular Weight: | 25 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Gene ID:          | 3146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| UniProt:          | <a href="#">P09429</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Pathways:         | <a href="#">p53 Signaling</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Skeletal Muscle Fiber Development</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Toll-Like Receptors Cascades</a> , <a href="#">Smooth Muscle Cell Migration</a> , <a href="#">Inflammasome</a>                                                                                                          |

## Application Details

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|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. IHC-Fr: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications.                      |
| Comment:           | Positive Control: Neuro2A , C8D30 , NIH-3T3 , BCL-1 , Raw264.7 , C2C12 , PC-12 , Rat-2 , 293T , A431 , HeLa , HepG2 , A375 , mouse brain , rat brain , HMGB1-transfected 293T<br>Validation: KO/KD, Overexpression |
| Restrictions:      | For Research Use only                                                                                                                                                                                              |

## Handling

|                  |                                                                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format:          | Liquid                                                                                                                                                                                        |
| Concentration:   | 0.73 mg/mL                                                                                                                                                                                    |
| Buffer:          | PBS, No Preservative                                                                                                                                                                          |
| Preservative:    | Without preservative                                                                                                                                                                          |
| 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.