

Datasheet for ABIN3043021  
**anti-HMGB4 antibody (N-Term)**



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## Overview

Quantity:	100 µg
Target:	HMGB4
Binding Specificity:	AA 24-41, N-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HMGB4 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for High mobility group protein B4(HMGB4) detection. Tested with WB in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human HMGB4(24-41aa RNKFKEQQPNTYVGFKEF), different from the related mouse and rat sequences by one amino acid.
Sequence:	RNKFKEQQPN TYVGFKEF
Isotype:	IgG
Cross-Reactivity (Details):	Predicted Cross Reactivity: mouse No cross reactivity with other proteins. Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.

## Product Details

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Characteristics: Rabbit IgG polyclonal antibody for High mobility group protein B4(HMGB4) detection. Tested with WB in Human,Mouse,Rat.  
Gene Name: high mobility group box 4  
Protein Name: High mobility group protein B4

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Purification: Immunogen affinity purified.

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## Target Details

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Target: HMGB4

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Alternative Name: HMGB4 ([HMGB4 Products](#))

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Background: HMGB4 is HMG2 like, isoform 2, high-mobility group box 4. This gene can be found on Chromosome 1. HMGB4 contains two HMG-box regions, which is found in a variety of eukaryotic chromosomal proteins and transcription. HMGB proteins are phosphorylated to various extents reveals that the existence of differentially modified forms increases the number of distinct HMGB protein variants in plant chromatin that may be adapted to certain functions.

Synonyms: High mobility group box 4 antibody|High mobility group protein B4 antibody|HMG2 like antibody

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## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, Predicted Species: Mouse  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities.  
Other applications have not been tested. Optimal dilutions should be determined by end users.

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Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB.

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Restrictions: For Research Use only

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## Handling

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Format: Lyophilized

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Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

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Concentration: 500 µg/mL

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Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

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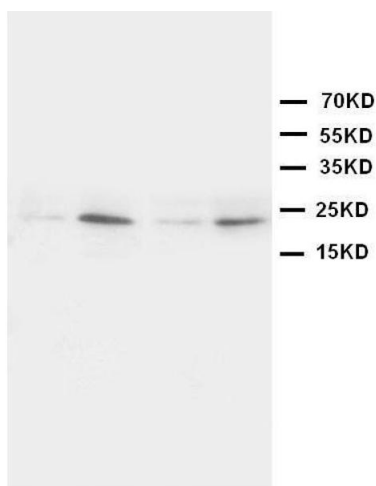
## Handling

Preservative:	Thimerosal (Merthiolate), Sodium azide
Precaution of Use:	This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

Product cited in:	Rouhiainen, Zhao, Vanttola, Qian, Kuleskiy, Kuja-Panula, Gransalke, Grönholm, Unni, Meistrich, Tian, Auvinen, Rauvala: "HMGB4 is expressed by neuronal cells and affects the expression of genes involved in neural differentiation." in: <b>Scientific reports</b> , Vol. 6, pp. 32960, (2018) ( <a href="#">PubMed</a> ).
	Zhao, Xue, Wang: "HMGB1, TGF- $\beta$ and NF- $\kappa$ B are associated with chronic allograft nephropathy." in: <b>Experimental and therapeutic medicine</b> , Vol. 14, Issue 6, pp. 6138-6146, (2017) ( <a href="#">PubMed</a> ).

## Images



### Western Blotting

**Image 1.** Anti-HMGB4 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: Rat Testis Tissue Lysate Lane 3: JURKAT Cell Lysate Lane 4: Cell Lysate