

HMGB1 Rabbit pAb

CatalogNo: YT5502

Orthogonal Validated 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IF, WB, IHC, ELISA

MW

- 30kD (Observed)

Isotype

- IgG

Recommended Dilution Ratios

IF 1:50-200**WB 1:500-1:2000****IHC: 1:100-1:300****ELISA 1:20000****Not yet tested in other applications**

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from the N-terminal region of human HMGB1.**Specificity** HMGB1 Polyclonal Antibody detects endogenous levels of HMGB1 protein.

| Target Information

Gene name HMGB1

Protein Name High mobility group protein B1

Organism	Gene ID	UniProt ID
Human	3146;	P09429;
Mouse	100862258;	P63158;
Rat	25459;	P63159;

**Cellular
Localization**

Nucleus . Chromosome . Cytoplasm . Secreted . Cell membrane ; Peripheral membrane protein ; Extracellular side . Endosome . Endoplasmic reticulum-Golgi intermediate compartment . In basal state predominantly nuclear. Shuttles between the cytoplasm and the nucleus (PubMed:12231511, PubMed:17114460). Translocates from the nucleus to the cytoplasm upon autophagy stimulation (PubMed:20819940). Release from macrophages in the extracellular milieu requires the activation of NLRC4 or NLRP3 inflammasomes (By similarity). Passively released to the extracellular milieu from necrotic cells by diffusion, involving the fully reduced HGMB1 which subsequently gets oxidized (PubMed:19811284). Also released from apoptotic cells (PubMed:16855214, PubMed:18631454). Active secretion from a variety of immune and non-immune cells such as macrophages, monocytes, neutrophils, dendritic cells and natural killer cells in response to various stimuli such as LPS and cytokines involves a nonconventional secretory process via secretory lysosomes (PubMed:12231511, PubMed:14532127, PubMed:15944249). Secreted by plasma cells in response to LPS (By similarity). Found on the surface of activated platelets (PubMed:11154118). An increased chromatin association is observed when associated with the adenovirus protein pVII (PubMed:27362237). .

Tissue specificity Ubiquitous. Expressed in platelets (PubMed:11154118).

Function Function: Binds preferentially single-stranded DNA and unwinds double stranded DNA., similarity: Belongs to the HMGB family., similarity: Contains 2 HMG box DNA-binding domains.,

| Validation Data

| Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: <http://www.immunoway.com.cn>
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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