

## Datasheet for ABIN1169271

## Recombinant anti-HMGB1 antibody (Biotin)



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Quantity:	100 μg	
Target:	HMGB1	
Reactivity:	Human, Mouse, Rat	
Host:	Human	
Antibody Type:	Recombinant Antibody	
Clonality:	Monoclonal	
Conjugate:	This HMGB1 antibody is conjugated to Biotin	
Application:	Western Blotting (WB), ELISA	
Product Details		
Immunogen:	Human recombinant HMGB1.	
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Clone:	Giby-1-4	
Clone:	Giby-1-4	
Clone:	Giby-1-4 IgG2	
Clone:  Isotype:  Specificity:	Giby-1-4  IgG2  Recognizes human, mouse and rat HMGB1.	
Clone:  Isotype:  Specificity:  Cross-Reactivity:	Giby-1-4  IgG2  Recognizes human, mouse and rat HMGB1.  Human, Mouse (Murine), Rat (Rattus)	
Clone:  Isotype:  Specificity:  Cross-Reactivity:  Purification:	Giby-1-4  IgG2  Recognizes human, mouse and rat HMGB1.  Human, Mouse (Murine), Rat (Rattus)  Purified from HEK 293 cell culture supernatant.	
Clone:  Isotype:  Specificity:  Cross-Reactivity:  Purification:  Purity:	Giby-1-4  IgG2  Recognizes human, mouse and rat HMGB1.  Human, Mouse (Murine), Rat (Rattus)  Purified from HEK 293 cell culture supernatant.	

## Target Details

Concentration:

Alternative Name:	HMGB1 (HMGB1 Products)	
Background:	HMGB1 was originally discovered as an essential DNA-binding protein for regulating p53, NF-	
	kappaB and other important proteins. It is secreted from activated dentric cells, macrophage	
	and nectrotic cells, and acts as a ligand for RAGE, TLR-2 and TLR-4 expressed on surrounding	
	cells. As a result, HMGB1 activates Rac, CDC42 and NF-kappaB inducing localized innate	
	immunity of damaged tissue, tissue regeneration by recruitment of stem cells and hemostasis	
	by induction of tissue factor expression. HMGB1 is also a causative agent of various diseases	
	as it causes localized inflammation such as arteriosclerosis, chronic rheumatoid arthritis and	
	nephritis. Anti-HMGB1, mAb (recombinant) (Giby-1-4) (Biotin) is an antibody developed by	
	antibody phage display technology using a human naive antibody gene library. These libraries	
	consist of scFv (single chain fragment variable) composed of VH (variable domain of the	
	human immunoglobulin heavy chain) and VL (variable domain of the human immunoglobulin	
	light chain) connected by a polypeptide linker. The antibody fragments are displayed on the	
	surface of filamentous bacteriophage (M13). This scFv was selected by affinity selection on	
	antigen in a process termed panning. Multiple rounds of panning are performed to enrich for	
	antigen-specific scFv-phage. Monoclonal antibodies are subsequently identified by screening	
	after each round of selection. The selected monoclonal scFv is cloned into an appropriate	
	vector containing a Fc portion of interest and then produced in mammalian cells to generate an	
	IgG like scFv-Fc fusion protein.	
UniProt:	P09429	
Pathways:	p53 Signaling, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development,	
	Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process,	
	Toll-Like Receptors Cascades, Smooth Muscle Cell Migration, Inflammasome	
Application Details		
Application Notes:	Optimal working dilution should be determined by the investigator.	
Comment:	HMGB1, monoclonal antibody (recombinant) (Giby-1-4) (Biotin) is composed of human variable	
	regions (VH and VL) (lambda-chain) of immunoglobulin fused to the human lgG2 Fc domain.	
Restrictions:	For Research Use only	
Handling		

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## Handling

Buffer:	In PBS containing 10 % glycerol and 0.02 % sodium azide.	
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:	4 °C,-20 °C	
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C Stable for at least 1 month after receipt when stored at +4°C. Stable for at least 1 year after receipt when stored at -20°C.	
Expiry Date:	12 months	