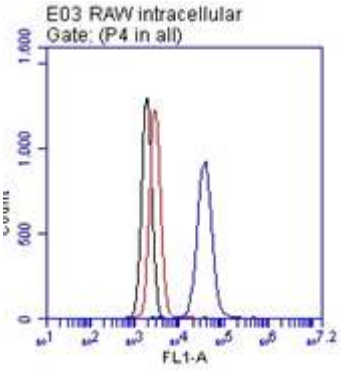
CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

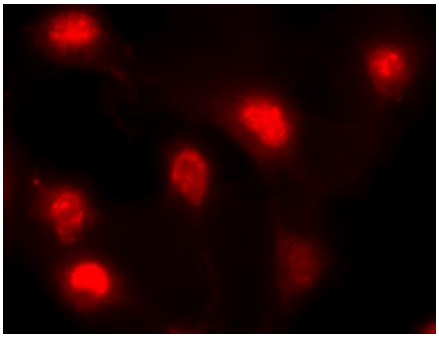
Product name	HMGB1, Rat, clone 5H6		
Catalog number	HM3043		
Lot number	-	**Expiry date**	-
Volume	1 ml	**Amount**	100 µg
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	**Concentration**	100 µg/ml
Host Species	Hamster IgG2, kappa	**Conjugate**	None
Endotoxin	<24 EU/mg	**Purification**	Dialyzed
Storage	4°C		

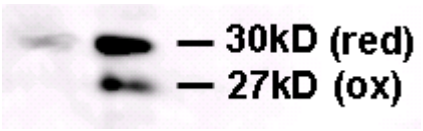
Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes			•	•				•
No								
N.D.	•	•			•	•	•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot







Dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.

- FC: For staining cells were permeabilized with buffer containing 0.5% saponin. The cells were fixed in 0.01% formaldehyde before staining. Hamster IgG isotype control is used as a negative control.
- IF: NIH-3T3 cells were fixed with 2% PFA (15 min). After fixation, cells were washed with PBS and incubated for 5 min at 4ºC with permeabilization buffer . The cells were blocked with 1% BSA/10% goat serum in PBS for 10 min and were incubated with HMGB1 mAb 5H6 (10 µg/ml) overnight at 4ºC. The secondary antibody was biotinylated goat anti-hamster IgG at a 1:500 dilution for 1 hour. Finally, streptavidin was used at a 1:500 dilution for 30 min.
- W: A band is expected at ~30 kDa using reducing conditions. For non-reducing conditions a band is expected at both 27 kDa and 30 kDa.

General Information

Description

HMGB1 (High Mobility Group Box-1 protein also known as amphoterin) is a highly conserved protein with more than 95% amino acid identity between rodent and human HMGB1. It is a prevalent non-histone chromatin component and a non-sequence specific DNA binding protein. HMGB1 consists of two homologous HMG boxes rich in basic amino acids and an acidic tail at the carboxy-terminus. HMGB1 is involved in the regulation of chromatin structure as well as being involved, either as positive or negative factors with various aspects of DNA replication, transcription, repair, and ligation. HMGB1, identified as a membrane associated protein termed “amphoterin,” mediates neurite outgrowth, tumor outgrowth, and metastasis. It participates in plasminogen activation and is recognized as a late mediator of endotoxin lethality in mice. The monoclonal antibody anti HMGB1, clone 5H6, can be used for Western blot, Flow cytometry and Immunofluorescence.

Aliases	Sulfoglucuronyl Carbohydrate Binding Protein, Amphoterin, SBP-1
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC	Date
Robbert Zwinkels	23/03/2018

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.