

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	Histone H3, Human, clone 1G1			
Catalog number	HM2344			
Lot number	-	Expiry date	-	
Volume	0.1 ml	Amount	100 µg	
Formulation	0.2 µm filtered in PBS+50%glycerol+0.5%BSA+0.02%NaN3		Concentration	1 mg/ml
Host Species	Mouse IgG1	Conjugate	None	
Endotoxin	N.A.	Purification	Affinity	
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.

- W: A non-reduced and reduced sample treatment and SDS-Page was used. The band sizes are 18 and 36 kDa (single and dimer).

General Information

Description	The Histone H3 human monoclonal antibody, clone 1G1, recognizes human Histone H3. This protein is one of the five main histone proteins involved in the structure of chromatin in eukaryotic cells. Histones are basic nuclear proteins that are responsible for the nucleosome structure of the chromosomal fiber in eukaryotes. Histone variants have emerged as important contributors to the regulation of chromatin structure and therefore of almost all DNA-based processes. Hence, these specialized proteins play important roles in transcriptional regulation, cell cycle progression, DNA repair, chromatin stability, chromosome segregation and apoptosis. Due to their evident biological significance, it is not surprising that mutations or the deregulation of their expression levels can have severe implications for cellular functions that ultimately might contribute to or even drive disease development, most notably cancer. Besides the histones themselves, their respective chaperone/remodeling complexes needed for precise variant chromatin deposition, are consequently frequent targets in neoplasms and diverse diseases.
Immunogen	Recombinant Histone H3
Aliases	HIST1H3A; H3FA; HIST1H3B; H3FL; HIST1H3C; H3FC; HIST1H3D; H3FB; HIST1H3E; H3FD; HIST1H3F; H3FI; HIST1H3G; H3FH; HIST1H3H; H3FK; HIST1H3I; H3FF; HIST1H3J; H3FJ; Histone H3.1; Histone H3/a; Histone H3/b; Histone H3/c; Histone H3/d; Histone H3/f; Histone H3
Cross reactivity	Mouse: Yes; Rat: Yes; Yeast: Yes.
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
Robbert Zwinkels

Date
16/03/2018

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