

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	SUMO-1, Human, clone 1B12-E2	Expiry date	-
Catalog number	HM2327		
Lot number	-	Amount	100 µg
Volume	1 ml	Concentration	100 µg/ml
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Conjugate	None
Host Species	Mouse IgG3	Purification	Protein G
Endotoxin	N.A.		
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 1:10.

- Higher expression of SUMO-1 was detected in normal adrenal gland, esophagus, pancreas, liver, stomach, kidney, and uterus. the function of SUMO-1 may vary depending on the tissue types.
- IHC-P: Tissue sections were deparaffinized in xylene, rehydrated, and treated with fresh 0.3% hydrogen peroxide in methanol for 15 min.
- W: A non-reduced sample treatment was used.

General Information

Description	Post-translational modification regulated by conjugation of a small ubiquitin-like modifier (SUMO) is involved in various cellular processes such as transcriptional regulation, apoptosis and nuclear transport. Recent proteomic analyses in mammalian cells revealed that a number of SUMO substrates and specific modifications by SUMO-1 are involved in essential processes, including chromatin organization, transcription, RNA metabolism, immunomodulation and development of the innate immune system.
Immunogen	hSUMO-1 and Lipoplex (O) complex
Aliases	SMT3, GMP1, UBL1 and PIC1
Cross reactivity	SUMO-2: No; SUMO-3: No; SUMO-4: No; Aldose Reductase: No.
References	1. Kim, D et al; A monoclonal antibody against the Human SUMO-1 protein obtained by immunization with recombinant protein and CpG-DNA-liposome complex. <i>Monoclonal Antibodies in Immunodiagnosis and Immunotherapy</i> 2013, 32: 354
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.