

**CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET**

<b>Product name</b>	SUMO-1, Human, clone 1B12-E2		
<b>Catalog number</b>	HM2327-20UG		
<b>Lot number</b>	-	<b>Expiry date</b>	-
<b>Volume</b>	200 µl	<b>Amount</b>	20 µg
<b>Formulation</b>	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	<b>Concentration</b>	100 µg/ml
<b>Host Species</b>	Mouse IgG3	<b>Conjugate</b>	None
<b>Endotoxin</b>	N.A.	<b>Purification</b>	Protein G
<b>Storage</b>	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**

<b>Description</b>	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.
<b>Immunogen</b>	hSUMO-1 and Lipoplex (O) complex
<b>Aliases</b>	SMT3, GMP1, UBL1 and PIC1
<b>Cross reactivity</b>	SUMO-2: No; SUMO-3: No; SUMO-4: No; Aldose Reductase: No.
<b>References</b>	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
<b>Storage&amp;stability</b>	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least one year.
<b>Precautions</b>	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  
Brenda Teunissen

Date  
28/12/2020

Do you have any questions or comments regarding this product? Please contact us via [support@hycultbiotech.com](mailto:support@hycultbiotech.com).