

Datasheet for ABIN3026266  
**anti-SUMO1 antibody**



[Go to Product page](#)

2 Images

## Overview

|              |                                                                                                                                       |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 100 µg                                                                                                                                |
| Target:      | SUMO1                                                                                                                                 |
| Reactivity:  | Human, Rat, Mouse                                                                                                                     |
| Host:        | Mouse                                                                                                                                 |
| Clonality:   | Monoclonal                                                                                                                            |
| Application: | Western Blotting (WB), Immunofluorescence (IF), Flow Cytometry (FACS),<br>Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |                                                                              |
|---------------|------------------------------------------------------------------------------|
| Immunogen:    | Recombinant human protein was used as the immunogen for this SUMO1 antibody. |
| Clone:        | S1MT-2                                                                       |
| Isotype:      | IgG1 kappa                                                                   |
| Purification: | Protein G affinity chromatography                                            |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | SUMO1                                                                                                                                                                                                                                                                                                                                                                                   |
| Alternative Name: | SUMO1 ( <a href="#">SUMO1 Products</a> )                                                                                                                                                                                                                                                                                                                                                |
| Background:       | The small ubiquitin-related modifier (SUMO) proteins, which include SUMO1, 2 and 3, belong to the ubiquitin-like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation to target proteins. However, SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantly targets proteins for |

## Target Details

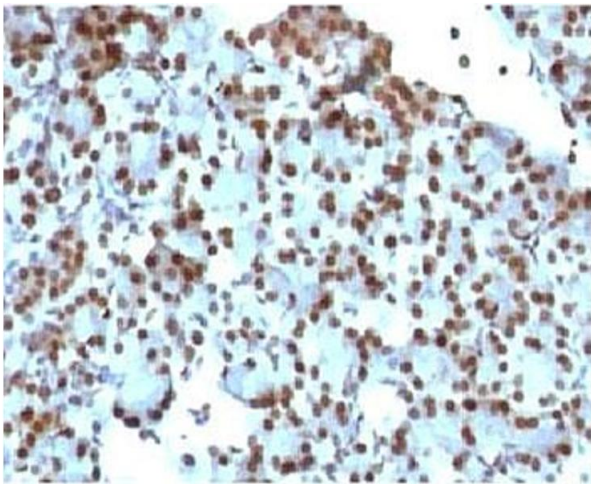
|           |                                                                                                                                                                                       |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|           | degradation, whereas sumoylation targets proteins to a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein stability.      |
| Gene ID:  | 7341                                                                                                                                                                                  |
| Pathways: | <a href="#">M Phase</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Ubiquitin Proteasome Pathway</a> |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | <p>Titring of the SUMO1 antibody may be required for optimal performance.</p> <p>1. FFPE testing requires sections to be boiled in pH 6 10 mM citrate buffer for 10-20 minutes, followed by cooling at RT for 20 minutes, prior to staining.</p> <p>2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. FACS: 0.5-1 µg/million cells,IF: 0.5-1 µg/mL,WB: 0.5-1 µg/mL,IHC (FFPE): 0.5-1 µg/mL for 30 minutes at RT (1),Prediluted format : incubate for 30 min at RT (2)</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

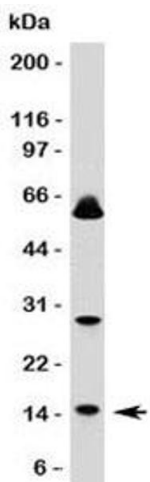
## Handling

|                  |                                                                                                         |
|------------------|---------------------------------------------------------------------------------------------------------|
| Concentration:   | 1 mg/mL                                                                                                 |
| Buffer:          | 1 mg/mL in 1X PBS, BSA free, sodium azide free                                                          |
| Preservative:    | Azide free                                                                                              |
| Storage:         | 4 °C,-20 °C                                                                                             |
| Storage Comment: | Store the SUMO1 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide). |



#### Immunohistochemistry

**Image 1.** IHC staining of rat pancreas with SUMO1 antibody (clone S1MT-2).



#### Western Blotting

**Image 2.** Western blot testing of SUMO1 antibody and HeLa lysate.