

Datasheet for ABIN6940603

anti-SUMO2 antibody

6 Images

[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	SUMO2
Reactivity:	Human, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This SUMO2 antibody is un-conjugated
Application:	Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Staining Methods (StM)

Product Details

Immunogen:	Recombinant human SUMO2 protein
Clone:	SUMO2-1199
Isotype:	IgG1 kappa
Cross-Reactivity (Details):	Predicted to show a broad species reactivity.
Purification:	Purified by Protein A/G

Target Details

Target:	SUMO2
Alternative Name:	SUMO2 (SUMO2 Products)
Background:	The small ubiquitin-related modifier (SUMO) proteins, which include SUMO-1, 2 and 3, belong to

Target Details

the ubiquitin-like protein family. Like ubiquitin, the SUMO proteins are synthesized as precursor proteins that undergo processing before conjugation to target proteins. Also, both utilize the E1, E2 and E3 cascade enzymes for conjugation. However, SUMO and ubiquitin differ with respect to targeting. Ubiquitination predominantly targets proteins for degradation, whereas sumoylation targets proteins to a variety of cellular processing, including nuclear transport, transcriptional regulation, apoptosis and protein stability. The unconjugated SUMO-1, 2 and 3 proteins localize to the nuclear membrane, nuclear bodies and cytoplasm, respectively. SUMO-1 utilizes Ubc9 for conjugation to several target proteins, which include MDM2, p53, PML and RanGap1. SUMO-2 and 3 contribute to a greater percentage of protein modification than does SUMO-1 and unlike SUMO-1, they can form polymeric chains. In addition, SUMO-3 regulates beta-Amyloid generation and may be critical in the onset or progression of Alzheimer's disease.

Molecular Weight:	11-13kDa
Gene ID:	6613
UniProt:	P55854
Pathways:	Methionine Biosynthetic Process

Application Details

Application Notes:	Positive Control: HeLa cells. Breast carcinoma. Known Application: Flow Cytometry (0.5-1 µg/million cells), Immunofluorescence (0.5-1 µg/mL), Immunohistochemistry (Formalin-fixed) (0.5-1 µg/mL for 30 minutes at RT)(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

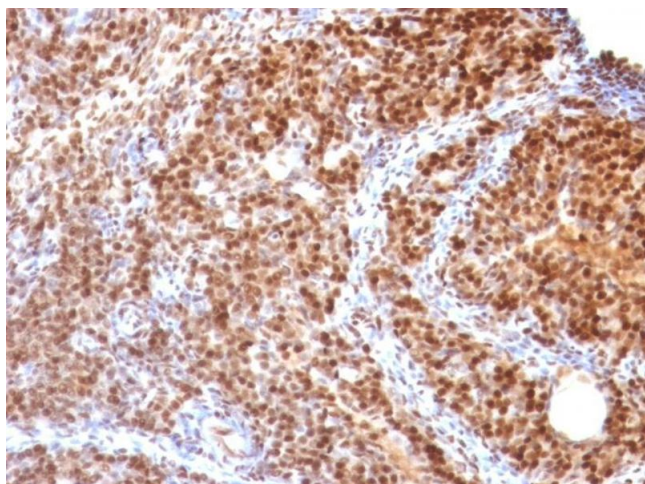
Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

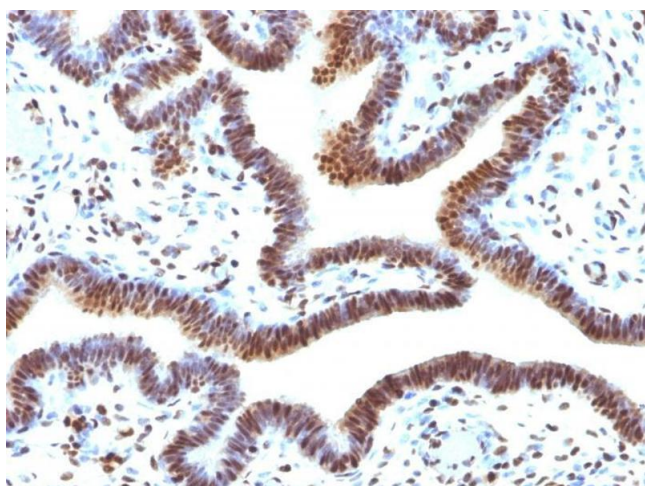
Expiry Date: 24 months

Images



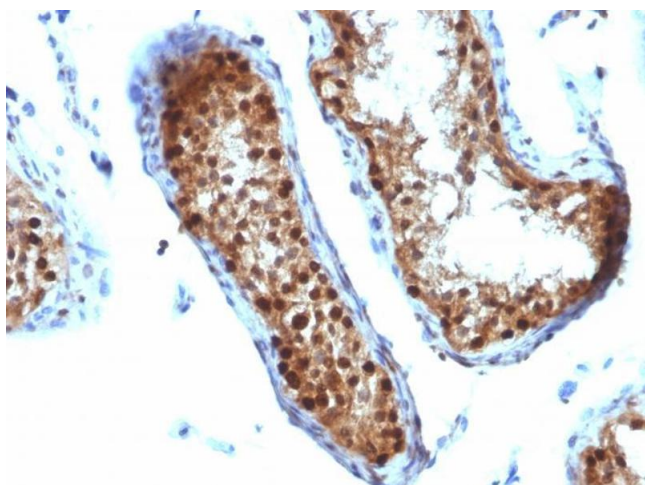
Immunohistochemistry

Image 1. Formalin-fixed, paraffin-embedded Rat Ovary stained with SUMO-2 MAb (SUMO2/1199)



Immunohistochemistry

Image 2. Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with SUMO-2 Monoclonal Antibody (SUMO2/1199)



Immunohistochemistry

Image 3. Formalin-fixed, paraffin-embedded human Testicular Carcinoma stained with SUMO-2 MAb (SUMO2/1199)

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN6940603.