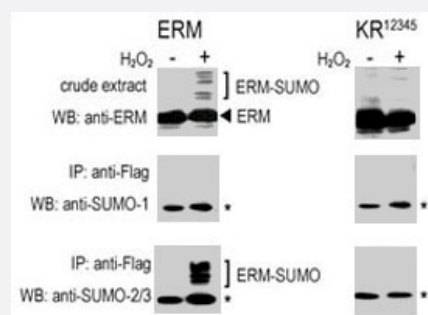


SUMO1 polyclonal antibody

Catalog # PAB2402

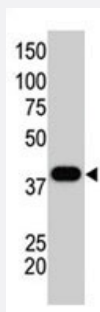
Size 400 uL

Applications



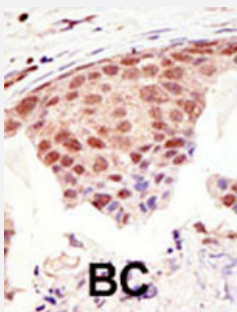
Western Blot

COS-7 cells were transfected for 24 hrs with a plasmid expressing FLAG-ERM (left panels) or FLAG-ERM KR12345 (right panels). Untreated (-) and H₂O₂-treated (+) cells were collected for immunoblot analysis. Top panels: cell lysates probed by western blot (WB) with an anti-ERM antibody. Center panels: cell lysates immunoprecipitated (IP) with an anti-FLAG antibody followed by WB with SUMO1 polyclonal antibody (Cat # PAB2402). Bottom panels: cell lysates immunoprecipitated with an anti-FLAG antibody followed by WB with SUMO2/3 polyclonal antibody (Cat # PAB2408). (*) represents immunoprecipitated ERM-like forms recognized by anti-SUMO antibodies.



Western Blot (Recombinant protein)

The SUMO1 polyclonal antibody (Cat # PAB2402) is used in Western blot to detect GST-SUMO1 fusion protein.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the SUMO1 polyclonal antibody (Cat # PAB2402), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of SUMO1.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to C-terminus of human SUMO1.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

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- Immunofluorescence

Gene Info — SUMO1

Entrez GeneID [7341](#)

Protein Accession# [AAC50996:P63165](#)

Gene Name SUMO1

Gene Alias DAP-1, GMP1, OFC10, PIC1, SENP2, SMT3, SMT3C, SMT3H3, SUMO-1, UBL1

Gene Description SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)

Omim ID [601912](#)

Gene Ontology [Hyperlink](#)

Gene Summary This gene encodes a protein that is a member of the SUMO (small ubiquitin-like modifier) protein family. It functions in a manner similar to ubiquitin in that it is bound to target proteins as part of a post-translational modification system. However, unlike ubiquitin which targets proteins for degradation, this protein is involved in a variety of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. It is not active until the last four amino acids of the carboxy-terminus have been cleaved off. Several pseudogenes have been reported for this gene. Alternate transcriptional splice variants encoding different isoforms have been characterized. [provided by RefSeq]

Other Designations GAP modifying protein 1|SMT3 suppressor of mif two 3 homolog 1|sentrin|ubiquitin-like 1 (sentrin)

Publication Reference

- [Transition from a nucleosome-based to a protamine-based chromatin configuration during spermiogenesis in Drosophila.](#)

Rathke C, Baarends WM, Jayaramaiah-Raja S, Bartkuhn M, Renkawitz R, Renkawitz-Pohl R.

Journal of Cell Science 2007 May; 120(Pt 9):1689.

Application: IF, Drosophila flies, Drosophila sperm

- [SUMO modification of the Ets-related transcription factor ERM inhibits its transcriptional activity.](#)

Degerny C, Monte D, Beaudoin C, Jaffray E, Portois L, Hay RT, de Launoit Y, Baert JL.

The Journal of Biological Chemistry 2005 Apr; 280(26):24330.

Disease

- [Carcinoma](#)

- [Cardiovascular Diseases](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
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