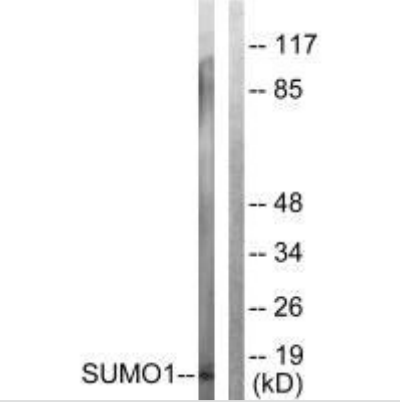
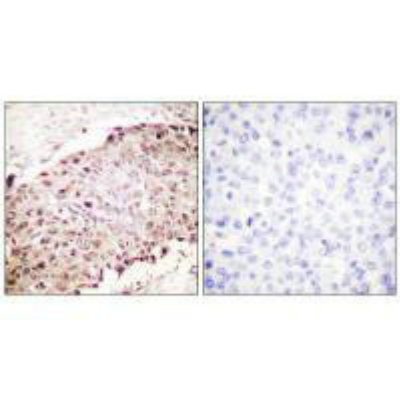
SUMO1 Antibody

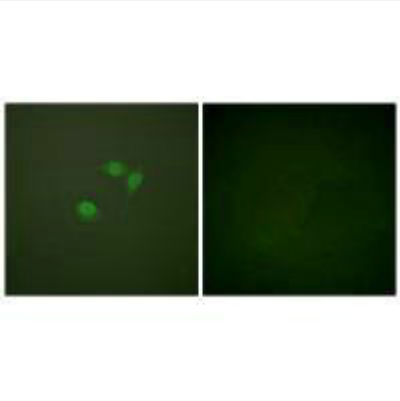
Product Code	CSB-PA042567
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P63165
Immunogen	Synthesized peptide derived from N-terminal of Human SUMO-1.
Raised In	Rabbit
Species Reactivity	Human,Mouse,Rat
Specificity	The antibody detects endogenous levels of total SUMO-1 protein.
Tested Applications	ELISA,WB,IHC,IF;WB:1:500-1:3000,IHC:1:50-1:100,IF:1:100-1:500
Relevance	Ubiquitin-like protein that can be covalently attached to proteins as a monomer or a lysine-linked polymer. Covalent attachment via an isopeptide bond to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by E3 ligases such as PIAS1-4, RANBP2 or CBX4. This post-translational modification on lysine residues of proteins plays a crucial role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Involved for instance in targeting RANGAP1 to the nuclear pore complex protein RANBP2. Polymeric SUMO1 chains are also susceptible to polyubiquitination which functions as a signal for proteasomal degradation of modified proteins. May also regulate a network of genes involved in palate development. Margarita Vigodner, Am J Physiol Endocrinol Metab, May 2006; 290: E1022 - E1033. Adrian Minty, J. Biol. Chem., Nov 2000; 275: 36316. Deborah A. Sampson, J. Biol. Chem., Jun 2001; 276: 21664 - 21669. Hidehisa Takahashi, J. Biol. Chem., Feb 2005; 280: 56
Form	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Alias	PIC1; SENTRIN; SMT3C; SMT3H3; UBL1
Product Type	Polyclonal Antibody
Species	Homo sapiens (Human)
Target Names	SUMO1
Image	



Western blot analysis of extracts from 293 cells, using Sumo1 antibody.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue using Sumo1 antibody.



Immunofluorescence analysis of NIH/3T3 cells, using Sumo1 antibody.