

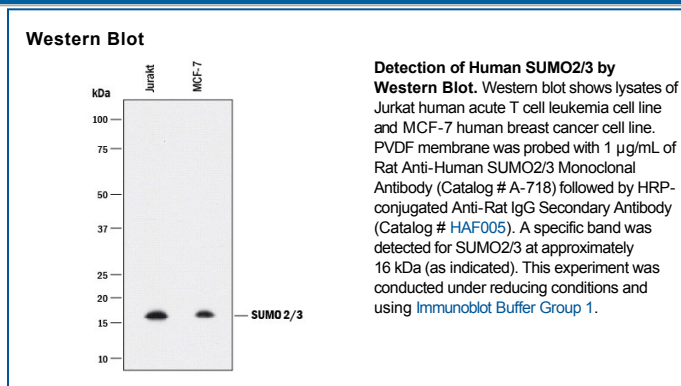
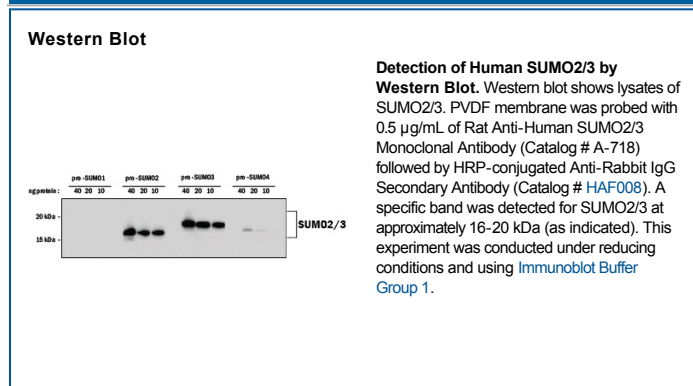
DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	This antibody detects endogenous, human SUMOylated proteins in Western blots. This antibody has equivalent reactivity to SUMO2 and SUMO3 in Western blots with recombinant SUMO proteins. It has less than 5% cross-reactivity with recombinant SUMO4 and no cross-reactivity with recombinant SUMO1.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 852908
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Purified, recombinant human SUMO3 Accession # P55854
<b>Formulation</b>	0.5 mg/mL in PBS, pH 7.4, 50% glycerol, and 0.09% sodium azide. See Certificate of Analysis for details.

### APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
<b>Western Blot</b>	0.5-1 µg/mL	See Below

### DATA



### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	Store the unopened product at -20 °C. Use a manual defrost freezer and avoid repeated freeze-thaw cycles. Storage below -20 °C is not recommended. Do not use past expiration date.

### BACKGROUND

Small Ubiquitinlike Modifiers (SUMOs) are a family of small, related proteins that can be enzymatically attached to a target protein by a posttranslational modification process termed SUMOylation. Unlike ubiquitination, which targets proteins for degradation, SUMOylation participates in a number of cellular processes, such as nuclear transport, transcriptional regulation, apoptosis, and protein stability. All human SUMO proteins share a conserved ubiquitin-like domain and a C-terminal diglycine cleavage/attachment site. Human SUMO1, SUMO2, SUMO3, and SUMO4 are all translated as propeptides, containing C-terminal prosegments following the diglycine motif that marks the end of the mature forms. Following prosegment cleavage, SUMO1, 2, and 3 may then be enzymatically attached to a lysine on a target protein. It is not clear whether SUMO4 is processed in a similar fashion.