

# Anti-Small ubiquitin-related modifier antibody

Catalog: PHY0160S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	The small ubiquitin-like modifier (SUMO) polypeptide that becomes covalently attached to various intracellular protein targets, much like ubiquitination, leading to post-translational modification of those targets. The surprising finding that plants have dedicated enzymes for chain synthesis implies a specific role for SUMO chains in plants. By the cooperative action with SUMO chain recognizing ubiquitin ligases, chains might channel substrates into the ubiquitin-dependent degradation pathway.
<b>Synonyms:</b>	SUMO2, ATSUMO2, SMALL UBIQUITIN-LIKE MODIFIER 2, SUM2, SUMO 2
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> SUMO2 (AT5G55160).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile water. "Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".
<b>Stability &amp; Storage:</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	13 kDa

Research Use Only

**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Glycine max*, *Triticum aestivum*, *Medicago truncatula*, *Cucumis sativus*, *Solanum tuberosum*, *Solanum lycopersicum*, *Spinacia oleracea*, *Nicotiana tabacum*, and 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Hordeum vulgare*, *Vitis vinifera*, *Oryza sativa*, *Zea mays*, *Gossypium raimondii*, *Sorghum bicolor*, *Panicum virgatum*, *Setaria viridis*, *Triticum aestivum*.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in SUMO1 (AT4G26840).

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).