

product **AS08 323**

ASY1 | asynaptic phenotype protein 1

product information

background	Pairing and synapsis of homologous chromosomes is required for normal chromosome segregation and the exchange of genetic material via recombination during meiosis. Synapsis is complete at pachytene following the formation of a tri-partite proteinaceous structure known as the synaptonemal complex (SC). In yeast, HOP1 is essential for formation of the SC, and localises along chromosome axes during prophase I. Homologues in <i>Arabidopsis</i> (<i>AtASY1</i>), <i>Brassica</i> (<i>BoASY1</i>) and rice (<i>OsPAIR2</i>) have been isolated through analysis of mutants that display decreased fertility due to severely reduced synapsis of homologous chromosomes. Analysis of these genes has indicated that they play a similar role to HOP1 in pairing and formation of the SC through localisation to axial/lateral elements of the SC.
immunogen	recombinant ASY1 protein produced in <i>E.coli</i> prepared from the sequence of <i>Triticum aestivum</i> ASY1 A7TVU8
antibody format	rabbit polyclonal serum lyophilized
quantity	100 µl for reconstitution add 100 µl of sterile water.
storage	store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.
tested applications	western blot (WB), ELISA (ELISA)
additional information	to be added when available

application information

recommended dilution	1: 1000 with standard ECL (WB) , 1: 10 000 (ELISA)
expected apparent MW	66.3
confirmed reactivity	<i>Triticum aestivum</i>
predicted reactivity	<i>Oryza sativa</i>
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	to be added when available
selected references	Boden et al. (2007). Expression and functional analysis of TaASY1 during meiosis of bread wheat (<i>Triticum aestivum</i>).BMC Mol. Biol. 8:65

Agrisera

Antibodies for research

This product is **for research use only** (not for diagnostic or therapeutic use)

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 035 33033 | www.agrisera.com