

ASY1 | Asynaptic phenotype protein 1 (monoclonal)

Cat PA00950

Size 50 µg

Host

Mouse

Clonality

Monoclonal

Confirmed reactivity

Triticum aestivum

Immunogen

KLH-conjugated synthetic pepitde chosen from Triticum aestivum ASY1 UniProt: A7TVU8

Host

Mouse

Clonality

Monoclonal

Purity

Total IgG. Protein G purified purified from Cell culture supernatant.

Format

Lyophilized

Reconstitution

For reconstitution add 50 µl of sterile water/tube

Storage

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.

Application

ELISA (ELISA), Western blot (WB)

Recommended dilution

1: 10 000 (ELISA), 1: 1000 (WB)

Expected | apparent MW

66,3 kDa

Confirmed reactivity

Triticum aestivum

Predicted reactivity

Triticum aestivum

Not reactive in

No confirmed exceptions from predicted reactivity are currently known

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY

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Additional information

This antibody does not work in immunolocalization

Description

During meiosis, pairing and synapses of homologous chromosomes are necessary for normal chromosome separation and exchange of genetic material through recombination. The synapse is completed after the coarse phase forms a tripartite protein structure called the synaptic complex (SC). In yeast, HOP1 is essential for SC formation and locates along the chromosome axis in prophase. By analyzing mutants with reduced fertility due to severely reduced synapses in homologous chromosomes, homologues in Arabidopsis (AtASY1), Brassica (BoASY1), and rice (OsPAIR2) have been isolated. Analysis of these genes showed that they play a similar role to HOP1 in SC pairing and formation by localization to axial/lateral elements of SC.

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