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

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Product no AS10 681 Tubulin beta chain

Product information

Immunogen

KLH-conjugated peptide derived from available tubulin beta chain sequences (located at a surface loop) including all Arabidopsis thaliana tubulin beta-2/beta-3 chain P29512, beta-4 chain P24636(At5g44340), beta-5 chain P29513(At1g20010), beta-6 chain P29514(At5g12250), beta-7 chain P29515(At2g29550), beta-8 chain P29516(At5g23860), beta-9 chain P29517(At4g20890).

Host

Rabbit

Clonality

Polyclonal

Affinity purified serum in PBS, pH 7.4

Format

Lyophilized in PBS pH 7.4

Quantity

100 µg

Reconstitution

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.

Additional information

Please, note that tubulin beta is only detected in actively dividing meristematic cells (see immunolocalization image below). Therefore to allow detection on a western blot, analyzed material must contain enough meristematic cells with dividing activity.

Signal in a western blot application in Chlamydomonas reinhardtii is obtained with a load of 100 μg/well and a dilution of 1:500.

Application information

Recommended dilution

1:1000 (IF), 1:500 (WB)

Expected | apparent

49 | 49 kDa (Arabidopsis thaliana)

Confirmed reactivity

Arabidopsis thaliana (including suspension cells), Chlamydomonas reinhardii, Medicago sativa

Predicted reactivity

Brassica napus, Glycine max, Hordeum vulgare, Micromonoas pusilla, Oryza sativa, Ostreococcus lucimarinus, Picea sitcHensis, Pisum sativum, Physcomitrella patens, Populus trichocarpa, Saccharomyces cerevisiae, Solanum tuberosum, Sorghum bicolor, Ricinus communis, Zea mays, Vigna radiata, Vitis vinifera

Species of your interest not listed? Contact us

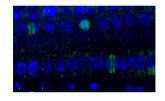
Not reactive in

No confirmed exceptions from predicted reactivity are currently known.

Selected references

Heinnickel et al. (2016). Tetratricopeptide repeat protein protects photosystem I from oxidative disruption during assembly. Proc Natl Acad Sci U S A. 2016 Mar 8;113(10):2774-9. doi: 10.1073/pnas.1524040113

Application example



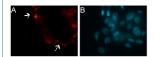
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Tubulin beta localization in *Arabidopsis thaliana* epidermis cells. Tubulin beta localized to division plates visualized in green, nucleus with DAPI in blue. Plant material has been fixed in para-formaldehyde for 30 minutes. Tissue cleaning has been performed before immunolocalization. Primary antibodies: Agrisera anti-tubulin beta priamry antibody in dilution 1: 1000 and Agrisera goat anti-rabbit lgG DyLight® 488, secondary antibody in dilution 1: 2000. Scale bar $-10 \mu m$.



(A) The 3 days old suspension cells of *Arabidopsis thaliana* have been fixed for 25 minutes with 2% FA, cell wall was partaillly digested with 0.2% Dricelase in MES buffer (pH 5.1) for 30 min at 37°C and the cells were dried on coated slide to omit PM extraction. Following by incubation for 45 minutes with Agrisera anti-tubulin beta chain primary antibody in a dilution of 1: 1000, washing once and 45 min incubation with a secondary goat anti-rabbit Alexa 555 antibody, in a dilution of 1:1000 dilution (Invitrogen). Cells were counterstained with DAPI and visialized under epi/fluiresecnet microscope (B).

Courtesy Dr. Taras Pasternak, Freiburg University, Germany