Datasheet for ABIN334538

anti-TOP2 antibody (C-Term, N-Term)

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Overview

Quantity:	200 µL
Target:	TOP2
Binding Specificity:	C-Term, N-Term
Reactivity:	Arabidopsis thaliana, Vicia faba
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunolocalization (IL)

Product Details

Immunogen:	The C-terminal 153 amino acids of the Arabidopsis thaliana Topoisomerase II (At3g23890, protein accesion number P30182) with an N-terminal hexahistidine tag was expressed in E.coli and purified by Ni2+ affinity chromatography.
Specificity:	Antibody detects a protein of ca. 170 kDa on western blots of Arabidopsis thaliana protein extracts. In subcellular fractions of cultured Arabidopsis cells the antibody detects a 170 kDa protein exclusively in the nulear fraction.
Cross-Reactivity (Details):	Not reactive in: Nicotiana tabacum
Predicted Reactivity:	Brassica rapa, Chlamydomonas reinhardtii, Chlorella vulgaris, Citrus clementina, Glycine max, Hordeum vulgare, Medicago truncatula, Oryza sativa, Ostreococcus tauri, Panicum italicum, Phaseolus vulgaris, Physcomitrella patens, Pinus sitchensis, Populus trichocarpa, Solanum tuberosum, Sorghum bicolor, Triticum aestivum, Vitis vinifera, Volvox caterii
Characteristics:	Expected / apparent Molecular Weight of the Antigene: 164 / 170 kDa (Arabidopsis thaliana)

Product Details

Purification:	serum

Target Details

Target:	TOP2
Alternative Name:	TOP2 (TOP2 Products)
Background:	AGI Code: At3g23890 Topoisomerase type II (EC5.99.1.3) is one of the enzymes which is catalyzing unknotting of DNA by creating transient breaks in the DNA using a conserved tyrosine as the catalytic residue.Synonyme names of this protein: At3g23890, ATTOPII, DNA topoisomerase 2, DNA topoisomerase II, F14O13.7, TOP2, TOPOISOMERASE II
Molecular Weight:	expected: 164 kDa, apparent: 170 kDa (Arabidopsis thaliana)
UniProt:	P30182
Pathways:	Mitotic G1-G1/S Phases

Application Details

Application Notes:	1: 2000 (WB), 1: 500 (IL)
Comment:	Topoisomerase II is highly expressed in young seedlings. The protein is localized in the nucleus and gene expression levels are increased in proliferative tissues like shoot apex or root tip.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For reconstitution add 200 µL of sterile water
Handling Advice:	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. Once reconstituted make aliquots to avoid repreated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	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.

Publications

Product cited in:	Xie, Lam: "Characterization of a DNA Topoisomerase II cDNA from Arabidopsis thaliana." in: **Plant physiology**, Vol. 106, Issue 4, pp. 1701-2, (1995) (PubMed).

Images

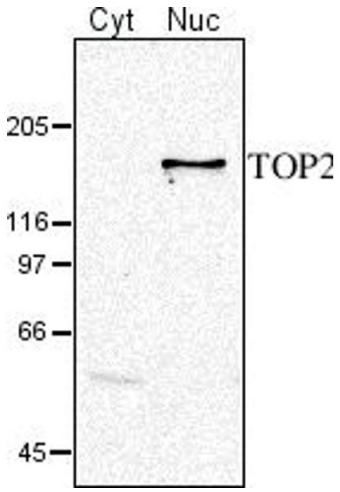

Image 1.

