

product **AS07 239**

### Toc159 | chloroplast outer envelope membrane translocon complex protein

#### product information

<b>background</b>	<b>Toc159</b> is located in the outer chloroplast membrane and part of the Toc/TOC (translocon of the outer envelope membrane of chloroplasts) complex. It mediates the GTP-dependent initial stages of preprotein import into chloroplasts. In <i>Arabidopsis thaliana</i> , Toc159 is encoded by a small gene family: atTOC159, atTOC132, atTOC120, and atTOC90. Phylogenetic analysis suggested that at least two distinct Toc159 subtypes, characterized by atToc159 and atToc132/atToc120, exist in plants.
<b>immunogen</b>	recombinant Toc159 (C-terminally His-tagged, including the central GTPase domain but lacking the N-terminal acidic domain as well as the C-terminal membrane associating domain) from <i>Pisum sativum</i> Toc159 protein sequence ( <a href="#">Q9LKR1</a> )
<b>antibody format</b>	guinea pig, polyclonal serum, lyophilized
<b>quantity</b>	50 µl - for reconstitution add 50 µl of sterile water
<b>storage</b>	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.
<b>tested applications</b>	western blot (WB), immunolocalization (IL)
<b>additional information</b>	Antibodies have been used in fluorescence and confocal microscopy and total internal reflectance confocal microscopy.

#### application information

<b>recommended dilution</b>	1 : 10 000 with alkaline phosphatase (WB), 1: 500 (CM)
<b>expected   apparent MW</b>	150 kDa (with protease inhibitors), 86 and 53 kDa (following proteolysis) and approx. 29 kDa degradation product (cross reaction with GTPase domain)
<b>confirmed reactivity</b>	<i>Pisum sativum</i>
<b>predicted reactivity</b>	dicots, <i>Oryza sativa</i>
<b>not reactive in</b>	<i>Arabidopsis thaliana</i>
<b>additional information</b>	Toc159 is extremely sensitive to proteolytic processing <i>in vivo</i> therefore use of protease inhibitors is of crucial importance.
<b>selected references</b>	to be added when available

# Agrisera

Antibodies for research

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

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