

product **AS06 193**  
**IAA | indole 3 acetic acid**

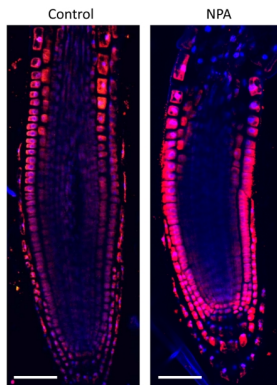
### product information

<b>background</b>	Indole 3 acetic acid ( <b>IAA</b> ) is the principal auxin in higher plants. This hormone is produced in cells in the apex and young leaves of a plant. Plant cells synthesize IAA from tryptophan. Different effects caused by auxines include: induction of cell elongation and cell division and have a subsequent results for plant growth and development.
<b>immunogen</b>	BSA-conjugated synthetic indole 3 acetic acid
<b>antibody format</b>	rabbit polyclonal total IgG in PBS, Phosphate 10mmol/l ; NaCl 150mmol/l at pH 7.35 lyophilized
<b>quantity</b>	100 µl, for reconstitution add 50 µl, of sterile water and 50 µl of glycerol
<b>storage</b>	store lyophilized/reconstituted at -20°C; this aliquote can be freezeed and thawed for up to five times and showed stability for at least 2 years. 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>	ELISA (ELISA), immunolocalization (IL)
<b>additional information</b>	to be added when available

### application information

<b>recommended dilution</b>	1: 5000 - 1: 10 000 (ELISA), 1: 100 (IL)
<b>expected   apparent MW</b>	n.a.
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Euphorbia pulcherrima</i> , <i>Medicago sativa</i> (nodules)
<b>predicted reactivity</b>	dicots and monocots
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	for detailed immunolocalization protocol check <a href="#">here</a> . quantification of IAA in ELISA using this antibody is described in <a href="#">Bianco and Defez (2009)</a> .
<b>selected references</b>	<a href="#">Bianco and Defez (2009)</a> . <i>Medicago truncatula</i> improves salt tolerance when nodulated by an indole-3-acetic acid-overproducing <i>Sinorhizobium meliloti</i> strain. <i>J Exp. Bot.</i> 60, No. 11: 3097-3107.

### application example



4 days old *Arabidopsis thaliana* seedlings were treated with 1 $\mu$ M NPA for 24 hours. Seedlings were fixed for 20 min in 4% EDAC in MTSB, and next 30 minutes in 4 % EDAC+ 2% Formaldehyde. Anti-auxin anti-rabbit primary antibody (Agrisera, catalog number AS06 193) diluted 1: 600 plus Goat anti-rabbit IgG (H&L), DyLight® 549 Conjugate (AS09 633) as secondary antibody diluted in 1: 3000 (shown in red color) were used.

Courtesy Dr. Taras Pasternak, Freiburg University, Germany.