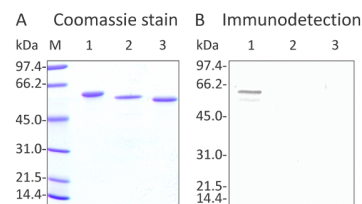


Product no **AS10 651****Anti-Enolase 2****Product information**

<b>Immunogen</b>	Recombinant <i>Arabidopsis thaliana</i> enolase UniProt: <a href="#">P25696-1</a> , TAIR: <a href="#">At2g36530</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	200 µl
<b>Reconstitution</b>	For reconstitution add 200 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 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 information**

<b>Recommended dilution</b>	1 : 2000 (WB)
<b>Expected   apparent MW</b>	47.7 kDa ( <i>Arabidopsis thaliana</i> )
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Helianthus annuus</i>
<b>Predicted reactivity</b>	<i>Brassica sp.</i> , <i>Chlamydomonas reinhardtii</i> , <i>Lycopersicon esculentum</i> , <i>Gossypium mexicanum</i> , <i>Nannochloropsis gaditana</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Physcomitrium patens</i> , <i>Populus balsamifera</i> , <i>Ricinus communis</i> , <i>Zea mays</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	Antibody is specific for the ENO2 isoform (cytosolic and active isoform), see data below
<b>Selected references</b>	<a href="#">Zhang et al. (2020)</a> . A moonlighting role for enzymes of glycolysis in the co-localization of mitochondria and chloroplasts. Nat Commun. 2020 Sep 9;11(1):4509.doi: 10.1038/s41467-020-18234-w. <a href="#">Zhang et al. (2018)</a> . Nitric oxide induces monosaccharide accumulation through enzyme S-nitrosylation. Plant Cell Environ. 2017 Sep;40(9):1834-1848. doi: 10.1111/pce.12989. <a href="#">Chen et al. (2009)</a> System analysis of an Arabidopsis mutant altered in de novo fatty acid synthesis reveals diverse changes in seed composition and metabolic regulation. Plant Physiol.

**Application example**

Coomassie staining of three recombinant sunflower ENO proteins after purification on IMAC column and SDS PAGE separation (**A**) Immunodetection carried out with the anti-Enolase antibody (**B**) (AS10 651 at 1:2000 dilution). The detection was done with the Goat Anti-Rabbit IgG (H+L) Alkaline phosphatase conjugated ([AS09 607](#) at 1:5000 dilution). In (A) and (B), the lanes were loaded as follows: M indicates the molecular weight markers Lane 1- Recombinant (6xHis)HaENO2 (cytosolic and active isoform) Lane 2- Recombinant (6xHis)ΔHaENO1 (plastidial isoform with the N-terminal transit peptide removed) Lane 3- Recombinant (6xHis)HaENO3 (cytosolic and inactive isoform) In panel (A), 0.7 µg protein was loaded per lane. In panel (B) 50 ng protein was loaded per lane. The faint band seen below the main band in lane 1 in (B) is likely a degradation product of the recombinant protein. No band was detected in lanes 2 and 3.

Recombinant sunflower enolases are described [Troncoso-Ponce et al. Plant Science \(2018\) 272:117-130](#).

Courtesy of Dr. Jean Rivoal, IRBV, Université de Montréal, Canada