

product **AS05 074**

### GDC-H | H protein of glycine decarboxylase complex (GDC)

#### product information

<b>background</b>	The Glycine decarboxylase complex ( <b>GDC</b> ) is abundant in mitochondria of C3 leaves and functions in photorespiratory carbon recovery. GDC enzyme can account for up to 50% of matrix protein, and is responsible for the most prominent metabolic activity in the mitochondria of illuminated leaves, photorespiration. GDC is a multienzyme complex composed of four component enzymes, the P-, H-, T-, and L-proteins and is responsible for the conversion of glycine produced in the peroxisome to serine in the mitochondria during photorespiratory cycle. The H-protein plays a key role as a mobile substrate that commutes between the other subunits, allowing its lipoic acid "arm" to visit the active sites of the other three components.
<b>immunogen</b>	purified GDC-H protein from <i>Spinacia oleracea</i>
<b>antibody format</b>	rabbit polyclonal total IgG in PBS pH 7.4 lyophilized
<b>quantity</b>	200 µl 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 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)
<b>additional information</b>	cellular [compartment marker] of mitochondrial matrix

#### application information

<b>recommended dilution</b>	1:5 000 with standard ECL (WB)
<b>expected   apparent MW</b>	16 kDa
<b>confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Spinacia oleracea</i>
<b>predicted reactivity</b>	n.a.
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	this antibody can be used on total cell extract of <i>Arabidopsis thaliana</i>
<b>selected references</b>	<a href="#">Córdoba-Cañero et al. (2011)</a> . <i>Arabidopsis</i> ARP endonuclease functions in a branched base excision DNA repair pathway completed by LIG1. The Plant J in print

## application example

**15 µg of total protein** from *Arabidopsis thaliana* leaf extract has been loaded per lane. Primary antibody has been used in 1 : 5000 dilution using standard ECL.

