

Product no **AS05 074****Anti-GDC-H | H protein of glycine decarboxylase complex (GDC)****Product information**

<b>Immunogen</b>	Purified GDC-H protein from <i>Spinacia oleracea</i>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Total IgG. Protein G purified in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	200 µg
<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.
<b>Additional information</b>	Cellular [compartment marker] of mitochondrial matrix

**Application information**

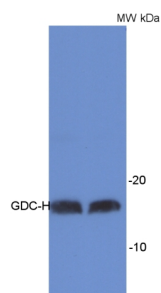
<b>Recommended dilution</b>	1: 250 (ExM), 1 : 5 000 (TP), (WB)
<b>Expected   apparent MW</b>	16 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Cyanthobasis fruticulosa</i> , <i>Petrosimonia nigdeensis</i> , <i>Petunia hybrida</i> cv. Mitchell, <i>Portulaca grandiflora</i> , <i>Salsola grandis</i> , <i>Salsola tragus</i> , <i>Spinacia oleracea</i> , <i>Triticum aestivum</i> , <i>Vicia faba</i>
<b>Predicted reactivity</b>	higher plants
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	This antibody can be used on total cell extract of <i>Arabidopsis thaliana</i> .
<b>Selected references</b>	<p><a href="#">Cox Jr et al. (2025)</a>. ExPOSE: a comprehensive toolkit to perform expansion microscopy in plant protoplast systems. The Plant Journal, Volume121, Issue 5, doi.org/10.1111/tpj.70049.</p> <p><a href="#">Skalický et al. (2023)</a>. Fluorescence-activated multi-organelle mapping of subcellular plant hormone distribution. Plant J. 2023 Dec;116(6):1825-1841.doi: 10.1111/tpj.16456. Epub 2023 Sep 8.</p> <p><a href="#">Xi et al.(2023)</a>. High CO2 facilitates fatty acid biosynthesis and mitigates cellular oxidative stress caused by CAC2 dysfunction in Arabidopsis. Plant J. 2023 Sep;115(5):1316-1330.doi: 10.1111/tpj.16321. Epub 2023 Jun 15.</p> <p><a href="#">Schäfer et al. (2021)</a> Assessment of Mitochondrial Protein Topology and Membrane Insertion. Methods Mol Biol. 2022;2363:165-181. doi: 10.1007/978-1-0716-1653-6_13. PMID: 34545493.</p> <p><a href="#">Przybyla-Toscano et al. (2021)</a> Protein lipoylation in mitochondria requires Fe-S cluster assembly factors NFU4 and NFU5. Plant Physiol. 2021 Oct 28;kiab501. doi: 10.1093/plphys/kiab501. Epub ahead of print. PMID: 34718778.</p> <p><a href="#">Guralnick et al. (2020)</a>. The Development of Crassulacean Acid Metabolism (CAM) Photosynthesis in Cotyledons of the C4 Species, <i>Portulaca grandiflora</i> (Portulacaceae). Plants (Basel). 2020 Jan 2;9(1). pii: E55. doi: 10.3390/plants9010055. (tissue printing)</p> <p><a href="#">Réthoré et al. (2019)</a>. Arabidopsis seedlings display a remarkable resilience under severe mineral starvation using their metabolic plasticity to remain self-sufficient for weeks. Plant J. 2019 Mar 22. doi: 10.1111/tpj.14325.</p> <p><a href="#">Lynch et al. (2017)</a>. Multifaceted plant responses to circumvent Phe hyperaccumulation by downregulation of flux through the shikimate pathway and by vacuolar Phe sequestration. Plant J. 2017 Dec;92(5):939-950. doi: 10.1111/tpj.13730. (<i>Petunia hybrida</i> cv. Mitchell)</p>

**Application example**

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

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**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 chemiluminescent detection.

Courtesy of Dr Olivier Keech, UPSC, Umeå, Sweden