

Product no **AS06 182**

GLDH | Galactono-1,4 lactone dehydrogenase

Product information

Background	Galactono-1,4-lactone dehydrogenase (GLDH) is the enzyme which catalyses last step of ascorbic acid (AA) synthesis in the mitochondria of plant cells. Alternative name: GaLDH
Immunogen	Recombinant C-terminal of <i>Zea mays</i> GLDH, UniProt: C0HFL3
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG
Format	Lyophilized in PBS pH 7.4
Quantity	100 µl
Reconstitution	For reconstitution add 100 µl of sterile water.
Storage	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.
Tested applications	Western blot (WB)
Related products	Collection of antibodies to stress proteins Collection of antibodies to mitochondrial proteins
Additional information	Total IgG concentration is 6.8 µg/µl

Application information

Recommended dilution	1 : 5000 (WB)
Expected apparent MW	68 kDa
Confirmed reactivity	<i>Avena sativa</i> , <i>Glycine max</i> , <i>Hordeum vulgare</i> , <i>Helianthus annuus</i> , <i>Oryza sativa</i> , <i>Zea mays</i>
Predicted reactivity	<i>Arabidopsis thaliana</i> , <i>Zostera marina</i> Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
Additional information	Mitochondrial, membrane or meristematic fractions were shown to be richer in GLDH expression For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	Chen et al. (2019) . Composition of Mitochondrial Complex I during the Critical Node of Seed Aging in <i>Oryza sativa</i> . Journal of Plant Physiology Volume 236, May 2019, Pages 7-14. Schimmeyer et al. (2016) . L-Galactono-1,4-lactone dehydrogenase is an assembly factor of the membrane arm of mitochondrial complex I in <i>Arabidopsis</i> . Plant Mol Biol. 2016 Jan;90(1-2):117-26. doi: 10.1007/s11103-015-0400-4. Epub 2015 Oct 31. Ostaszewska-Bugajska et al. (2016) . Changes in the OXPHOS system in leaf and root mitochondria of <i>Arabidopsis thaliana</i> subjected to long-term sulphur deficiency. Acta Physiologiae Plantarum 38:141. Bartoli et al. (2005) . Ascorbate content in wheat leaves is not determined by maximal L-galactono-1, 4-lactone dehydrogenase (GaLDH) activity under drought stress. Plant Cell Environ 28:1073-1081.

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

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