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This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

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**Product no** AS15 3079

# Anti-LCY | Lycopene beta-cyclase (chloroplastic)

## Product information

| | |
|---|---|
| **Immunogen** | His-tagged, recombinant *Arabidopsis thaliana* LCY1 lycopene beta-cyclase, overexpressed in *E.coli,* UniProt:Q38933 , TAIR: AT3G10230 |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Purity** | Serum |
| **Format** | Lyophilized |
| **Quantity** | 50 µl |
| **Reconstitution** | For reconstitution add 50 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 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. |
| **Additional information** | This product can be sold with ProClin if requested |

## Application information

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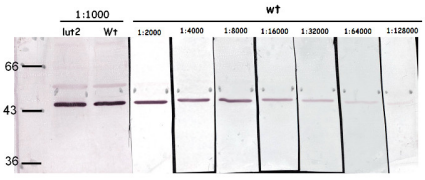
|---|---|
| **Recommended dilution** | 1 : 1000 -1 : 128 000 (WB) |
| **Expected \| apparent MW** | 56 \| 50 kDa |
| **Confirmed reactivity** | *Arabidopsis thaliana* |
| **Predicted reactivity** | *Adonis aestivalis var. palaestina, Bixa orellana, Brassica napus, Brassica rapa subsp. pekinensis, Camellia sinensis, Capsicum annuum, Carica papaya, Citrus maxima, Citrus sinensis, Chrysanthemum morifolium, Cucumis sativus, Cucurbita moschata, Daucus carota subsp. sativus, Diospyros kaki, Eriobotrya japonica, Erythranthe lewisii, Gentiana lutea, Glycine soja, Ipomoea sp. Kenyan, Lycium ruthenicum, Medicago truncatula, Morus notabilis, Narcissus pseudonarcissus, Nicotiana tabacum, Oryza sativa, Populus trichocarpa, Ricinus communis, Rosa rugosa, Salicornia europaea, Sandersonia aurantiaca, Solanum lycopersicum, Taraxacum officinale, Taraxacum officinaleTheobroma cacao, Vitis vinifera*<br>Species of your interest not listed? Contact us |
| **Not reactive in** | No confirmed exceptions from predicted reactivity are currently known |

**application example**




Total protein from *Arabidopsis thaliana* leaves, wilde type and Lut2 (*Arabidopsis thaliana* mutant devoid of lycopene-epsilon-cyclase, an enzyme at the same branching point catalyzed by lycopene-beta-cyclase (LCY)) corresponding to 0.5 µg of chlorophylls, were extracted with loading buffer (10% glycerol, 62.5 mM Tris pH 6.8, 2% SDS, 5%  -mercaptoethanol) and denatured at 100°C (boiling water) for 1 min.

Proteins were separated on 12% SDS-PAGE (Laemly) and blotted 1h to PVDF using tank transfer. Blots were blocked with blocking solution (PBS 1X, 0.2% w/v Tween, 5% powder milk) for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody diluted in blocking solution, at a dilution of from 1:1000 to 1:128000) for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 3 times for 10 min in blocking solution at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG alkaline phosphatase conjugated, diluted to 1:30 000 in blocking buffer for 1h at RT with agitation. The blot was washed 2 times for 10 min in blocking solution and once with PBS 1X solution for 10 min, then developed in developing buffer NBT/BCIP by manual agitation.

Courtesy of Stefano Cazzaniga, University of Verona, Italy

Mutant devoid of LCY is not available (not viable) and using lut2 mutant allowed to test if the antibody discriminates the two different cyclases.