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Product no AS15 3084

Anti-LUT1 | Beta-carotene hydroxylase

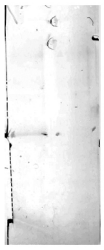
Product information

Immunogen	His-tagged, recombinant, full-length, LUT1 of *Arabidopsis thaliana*, overexpressed in *E.coli,* UniProt: Q6TBX7,TAIR: AT3G53130
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.

Application information

Recommended dilution	1 : 2000 (WB)
Expected | apparent MW	60.5 | 57 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Camelia sinensis, Croton stellatopilosus, Daucus carota, Gossypium arboreum, Lycium barbarum, Marchantia polymorpha, Medicago truncatula, Morus notabilis, Oryza sativa, Picea glauca, Ricinus communis, Salvia miltiorrhiza, Selaginella moellendoffoo, Solanum lycopersicum, Theobroma cacao, Zea mays, Zostera marina* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known

Application example



Total proteins from *Arabidopsis thaliana* leaves wilde type (left panel) and lut 1 mutant (right panel), corresponding to 1 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 15% 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 1: 1,500, 1:3,000, 1:6,000, 1:12,000 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