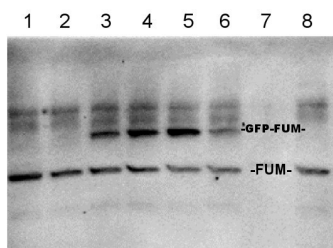


Product no **AS16 3966****FUM1 + FUM2 | Fumarase 1+2 (mitochondrial+cytosolic)****Product information**

Immunogen	KLH-conjugated peptide chosen from <i>Arabidopsis thaliana</i> FUM protein sequence, mitochondrial (FUM1): P93033 , TAIR: At2g47510 , cytosolic (FUM2): UniProt Q9FI53 , TAIR: At5g50950
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
Reconstitution	for reconstitution add 50 µl of sterile water
Storage	The antibody may be stored at -20°C for one year in its original formulation. Additionally, antibody may be stored at 2°C to 8°C for up to 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles of the diluted antibody.

Application information

Recommended dilution	1:1000 (WB)
Expected apparent MW	49,9 55 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i>
Predicted reactivity	<i>Ananas comosus</i> , <i>Capsicum chinense</i> , <i>Cynara cardunculus</i> var. <i>scolymus</i> , <i>Diplotaxis tenuifolia</i> , <i>Eruca versicaria</i> , <i>Genlisea aurea</i> , <i>Glycine soja</i> , <i>Gossypium hirsutum</i> , <i>Helianthus annuus</i> , <i>Hordeum vulgare</i> , <i>Nicotiana sylvestris</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Rhizophora mucronata</i> , <i>Ricinus communis</i> , <i>Solanum lycopersicum</i> , <i>Trifolium pratense</i> , <i>Zea mays</i> , <i>Vigna radiata</i> , <i>Quercus suber</i>
	Species of your interest not listed? Contact us

Application example

Total protein extracted freshly from *Arabidopsis thaliana* 14-old-day seedlings grown on ½ MS without sugar in extraction buffer [100 mM NaCl; 50 mM Tris-HCl pH 7.5; 0.5% (v/v) Triton X-100; 1 mM DTT; 1× Complete Protease Inhibitor Cocktail Tablet (Roche, Basel, Switzerland)] and denatured in Laemeli buffer at 55°C for 5 min. 50 µg of protein extracts: *Arabidopsis thaliana* wt (1), *fum2-1* mutant (2), *fum2-1* + GFP-FUM2 N1 (3), *fum2-1* + GFP-FUM2 N2 (4), *fum2-1* + GFP-FUM2 N3 (5), *fum2-1* + GFP-FUM2 N3 (6), no protein -GFP, *fum2-2* (8) were loaded and separated on 12% SDS-PAGE and blotted 1h to PVDF membranes in a semi-dry transfer system. The membrane was blocked with 3% milk for 1h at RT with agitation and then incubated in the primary antibody (anti-FUM) at a dilution of 1: 2 000 for 1h at RT with agitation in TBS-T and milk 3%. The antibody solution was decanted and the blot was rinsed briefly three times in TBS-T for 5 min. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated [AS09 602](#)) diluted to 1:5 000 in for 1h at RT with agitation. The blot was washed as above and developed for 10 min using chemiluminescence detection reagent in a Gel Doc XR+ System (Bio-rad; Hercules; USA).

fum1 mutant is lethal therefore a band of ca. 60 kda is still present in *fum2-1* and *fum2-2* background.

Courtesy of Dr. Antoni Garcia Molina, Ludwig-Maximilians-Universität München (LMU), Germany