

Anti-OLE2 (At) antibody, rabbit polyclonal

Product code	81-115
Size	200 µg
Storage	-20°C
Concentration	2.0 mg/ml
Buffer	PBS ⁻ with 50% glycerol
Purity	Purified IgG fraction with protein A from rabbit antiserum.
Immunogen	Synthetic peptide C-HRVDRTDRHFQFQS, corresponding to OLE2 protein (5-18 amino acids) of <i>Arabidopsis thaliana</i> .
Isotype	Rabbit IgG
Reactivity	<i>Arabidopsis thaliana</i> . Not tested in other species.
Special notes	N/A
Application	1. Western blotting (1/10,000-1/20,000)
Background	<p>Oleosins may have a structural role to stabilize the lipid body during desiccation of the seed by preventing coalescence of the oil. Probably interacts with both lipid and phospholipid moieties of lipid bodies. May also provide recognition signals for specific lipase anchorage in lipolysis during seedling growth. Oleosins also increase the viability of over-wintering oilseeds by preventing abnormal fusion of oil bodies during imbibition in the spring. Length;199 amino acids. Mass; 21,279</p> <p>Subcellular location: Surface of oil bodies</p>
Data Link	UniProtKB Q39165 (OLEO2_ARATH)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	

Data Images: 81-115 Anti-OLE2 (At) antibody, rabbit polyclonal

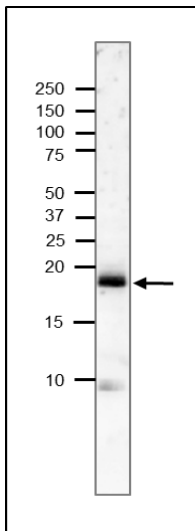


Fig.1 Western blot of OLE2 in homogenates of dry seeds of Arabidopsis

Homogenates of dry seeds of *Arabidopsis thaliana* was run on SDS-PAGE (15-20% gradient gel) and blotted at 15 V overnight to PVDF membrane by wet system. Blocking was done with 3% skim milk. The anti-OLE1 antibody was used at 0.1µg/ml. Secondary antibody (goat anti-rabbit IgG antibody HRP-conjugated, ab97051) was used at 1/10,000 dilution.

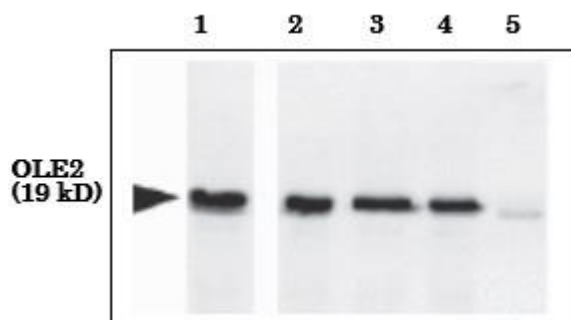


Fig.2 Western blot analysis of OLE2 protein in dry seeds of Arabidopsis: Decreased expression of OLE2 protein in *ole2* mutant.

Dry seed homogenates of wild-type (1), oleosin-deficient mutants, *ole4* (2), *ole3* (3), *ole1* (4) and *ole2* (5) were run on SDS-PAGE (15% gel) and blotted to PVDF membrane. The membrane was blocked by 5% skim milk. The anti-OLE2 antibody was used at 1/2,000 dilution. As the second antibody, HRP-conjugated goat anti-rabbit IgG (Pierce) was used at 1/2,000 dilution. OLE2 migrated faster than the predicted mass of 21 kD.

Reference. This antibody was described in Ref.1 and used in the following publications.

1.Shimada TL et al. A novel role for oleosins in freezing tolerance of oilseeds in *Arabidopsis thaliana*.

[Plant J.](#) 2008 Sep;55(5):798-809. PMID: [18485063](#). **WB (arabidopsis)**

Related Products

81-112 Anti-PBP1 N-terminal (At) antibody, rabbit polyclonal

81-114 Anti-OLE1 (At) antibody, rabbit polyclonal

81-116 Anti-PYK10 C-terminal (At) antibody, rabbit polyclonal

81-117 Anti-PYK10 Internal (At) antibody, rabbit polyclonal