

## Anti-At 2S3M (2S3 Albumin) antibody, rabbit polyclonal

Cat. # 81-122      Size: 200 µg

### Background:

2S seed storage protein 3, one of major seed storage proteins is synthesized on the endoplasmic reticulum as precursor and then transported to storage vacuoles, where it is processed by an asparaginyl endopeptidase to produce two mature polypeptides referred to as large and small subunits which are linked by disulfide bonds

**Subcellular location:** Vacuole

### Specifications:

**Storage:** Shipped at 4°C and store at -20°C

**Form:** 2 mg/ml in PBS, 50% glycerol. Filter sterilized. No preservative or carrier added.

**Purity:** IgG, affinity-purified with Protein A/G mix

**Immunogen:** Synthetic peptide (AARAVSLQGQHGPFSRKIY) whose sequence is derived from the large subunit of Arabidopsis 2S3 albumin.

**Reactivity:** Reacts with *A thaliana* 2S albumin precursor and large submit. Not tested in other species.

### Applications

1. Western blot (1/2,500 dilution)
2. ELISA (assay dependent)
3. Immunoelectron microscopic analysis (1/500 dilution)

Other applications have not been tested.

**Data Link:** UniProtKB:[P15459](https://www.uniprot.org/entry/P15459) (2SS3\_ARATH)

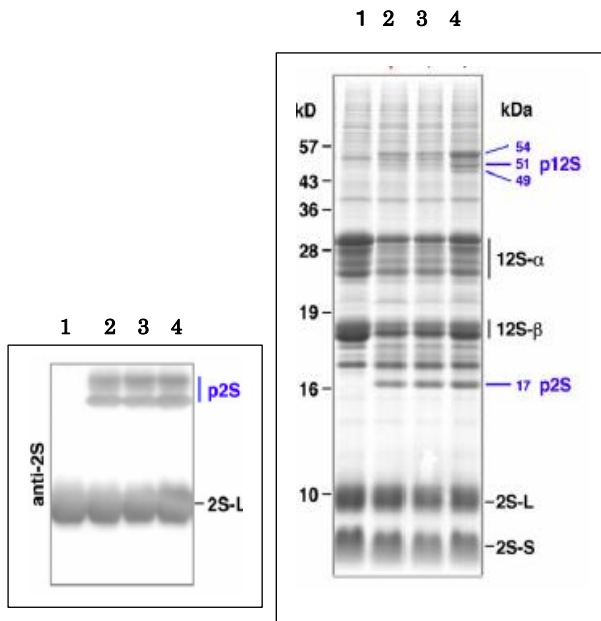
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**Fig. 1 Western Blot of the precursor 2S albumin and the 2S large subunit of the mature form in extract of Arabidopsis dry seeds.**

Samples

1. Wild type

2~4: Mutants that accumulate the precursors of major storage proteins (mag5-1, mag2-1, and mag4-1)

Left panel: Western blot with anti-At 2S3M antibody (1/2,500 dilution).

Right panel: SDFS-PAGE of extracts of dry seeds. p2S (Precursor of 2S), 2S-L (Large subunit of 2S )

**References:** This product has been used in the following publication.

1. Takagi J., et al. MAIGO5 functions in protein export from Golgi-associated endoplasmic reticulum exit sites in Arabidopsis. [Plant Cell](#). 2013 Nov;25(11):4658-75. PMID:[24280388](#) WB, Immunoelectron Microscopy (Arabidopsis)