

# Anti-Rubisco activase Antibody

## R1608-1



<b>Product Type:</b>	Rabbit polyclonal IgG, primary antibodies
<b>Species reactivity:</b>	Arabidopsis thaliana, Nicotiana tabacum, Oryza sativa, Zea mays, Spinacia oleracea, Morus alba
<b>Applications:</b>	WB, IHC-P, IF-Tissue

**Description:** Ribulose biphosphate carboxylase/oxygenase activase is an enzyme localized to chloroplasts which activates Rubisco by promoting ATP-dependent conformational changes. Alternative name: RuBisCo activase RCA. There are two forms of activase (alpha and beta) in some species (for example Arabidopsis, camelina, spinach, rice) and only one form in other species (tobacco, maize, Chlamydomonas). Alpha is about 46-47 kDa, beta is about 42 kDa. Species that have only one form have the beta form.

**Immunogen:** Synthetic peptide within Arabidopsis thaliana Rubisco activase aa 190-233.

**Positive control:** Mulberry leaf, rice, A. thaliana, tabacum.

**Subcellular location:** Plastid

**Database links:** SwissProt: P10896 Arabidopsis thaliana

**Recommended Dilutions:**

<b>WB</b>	1:10,000-1:50,000
<b>IHC-P</b>	1:50-1:200
<b>IF-Tissue</b>	1:50-1:200

**Storage Buffer:** 1\*PBS (pH7.4), 0.2% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Purity:** Immunogen affinity purified.

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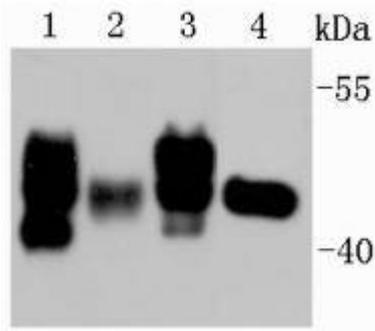
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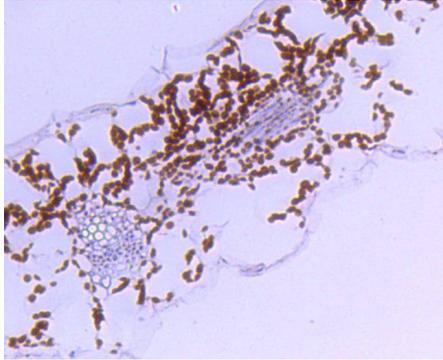
## Images



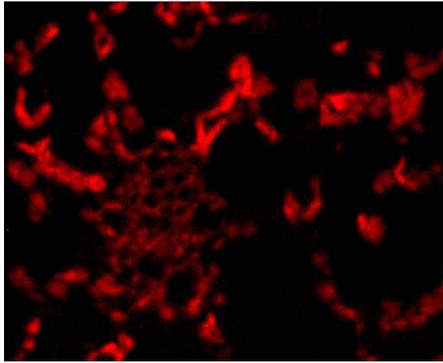
**Fig1:** Western blot analysis on different tissue lysates using anti-Rubisco activase rabbit polyclonal antibody.

**Positive control:**

- Lane 1: Mulberry leaf
- Lane 2: Rice
- Lane 3: *A. thaliana*
- Lane 4: Tabacum



**Fig2:** Immunohistochemical analysis of paraffin-embedded *A. thaliana* using anti-Rubisco activase rabbit polyclonal antibody. .



**Fig3:** Immunofluorescence staining of paraffin- embedded *A. thaliana* using anti-Rubisco activase rabbit polyclonal antibody. .

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

### Background References

1. Jurczyk et al. Evidence for alternative splicing mechanisms in meadow fescue (*Festuca pratensis*) and perennial ryegrass (*Lolium perenne*) Rubisco activase gene. *J Plant Physiol* 176:61-64 (2015).
2. Yin et al. Characterization of Rubisco activase genes in maize: an  $\alpha$ -isoform gene functions alongside a  $\beta$ -isoform gene. *Plant Physiol* 164(4):2096-106 (2014).

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