abcam

## Product datasheet

# Anti-RUBISCO antibody ab226002

1 Image

### Overview

| | |
|---|---|
| **Product name** | Anti-RUBISCO antibody |
| **Description** | Rabbit polyclonal to RUBISCO |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** WB |
| **Species reactivity** | **Reacts with:** Recombinant fragment<br>**Predicted to work with:** Soybean |
| **Immunogen** | Recombinant full length protein corresponding to Soybean RUBISCO aa 1 to the C-terminus.<br>Database link: **P27066**<br>Run BLAST with Run BLAST with |
| **Positive control** | WB: Recombinant Soybean RUBISCO protein. |
| **General notes** | The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.<br>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As |

### Properties

| | |
|---|---|
| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. |
| **Storage buffer** | pH: 7.40<br>Preservative: 0.03% Proclin 300<br>Constituents: 50% Glycerol (glycerin, glycerine), PBS |
| **Purity** | Protein G purified |
| **Purification notes** | Purity >95%. |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab226002 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **WB** | | 1/500 - 1/5000. Detects a band of approximately 69 kDa (predicted molecular weight: 53 kDa). |

## Target

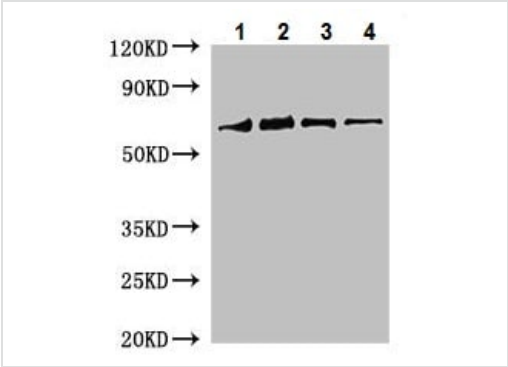
**Function** RuBisCO catalyzes two reactions: the carboxylation of D-ribulose 1,5-bisphosphate, the primary event in carbon dioxide fixation, as well as the oxidative fragmentation of the pentose substrate in the photorespiration process. Both reactions occur simultaneously and in competition at the same active site.

**Sequence similarities** Belongs to the RuBisCO large chain family. Type I subfamily.

**Post-translational modifications** The disulfide bond which can form between Cys-247 in the large chain dimeric partners within the hexadecamer appears to be associated with oxidative stress and protein turnover (By similarity). The disulfide bonds reported in 1RBO may be the result of oxidation during crystallization.

**Cellular localization** Plastid > chloroplast.

## Images




Western blot - Anti-RUBISCO antibody (ab226002)

**All lanes :** Anti-RUBISCO antibody (ab226002) at 1/500 dilution

**Lane 1 :** Recombinant Soybean RUBISCO protein at 0.08 µg
**Lane 2 :** Recombinant Soybean RUBISCO protein at 0.04 µg
**Lane 3 :** Recombinant Soybean RUBISCO protein at 0.02 µg
**Lane 4 :** Recombinant Soybean RUBISCO protein at 0.01 µg

**Predicted band size:** 53 kDa
**Observed band size:** 69 kDa



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