SunLong Biotech Co.,LTD
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# Mouse Anti-RuBisCO antibody

SLM-33226M

| | |
|---|---|
| **Product Name** | RuBisCO |
| **Chinese Name** | 核糖二磷酸羧化酶大链单克隆抗体 |
| **Alias** | rbcL; RBL_SPIOL; Ribulose bisphosphate carboxylase large chain; RuBisCO-large subunit; ribulose-1,5-bisphosphate carboxylase/oxygenase large subunit. |
| **Product Type** | Botany 抗体 |
| **Research Area** | Tumour Cell biology Signal transduction Botany The new supersedes the old |
| **Immunogen Species** | Mouse |
| **Clonality** | Monoclonal |
| **Clone NO.** | 3G5 |
| **React Species** | Arabidopsis Thaliana |
| **Applications** | WB=1:500-2000<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Theoretical molecular weight** | 52kDa |
| **Cellular localization** | cytoplasmic |
| **Form** | Liquid |
| **Concentration** | 1mg/ml |
| **immunogen** | D-Ribulose 1,5-Diphosphate Carboxylase purified |
| **Lsotype** | IgG |
| **Purification** | affinity purified by Protein G |
| **Buffer Solution** | 1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. |
| **Storage** | Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Attention** | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |
| **PubMed** | PubMed |
| **Product Detail** | 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.

**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.

**Subunit:**
Heterohexadecamer of 8 large chains and 8 small chains; disulfide-linked. The disulfide link is formed within the large subunit homodimers.

**Subcellular Location:**
Plastid, chloroplast.

**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.

**Similarity:**
Belongs to the RuBisCO large chain family. Type I subfamily.

**SWISS:**
P00875

**Gene ID:**
2715621

**Database links:**

Entrez Gene: 2715621 Spinacia oleracea

SwissProt: P00875 Spinacia oleracea

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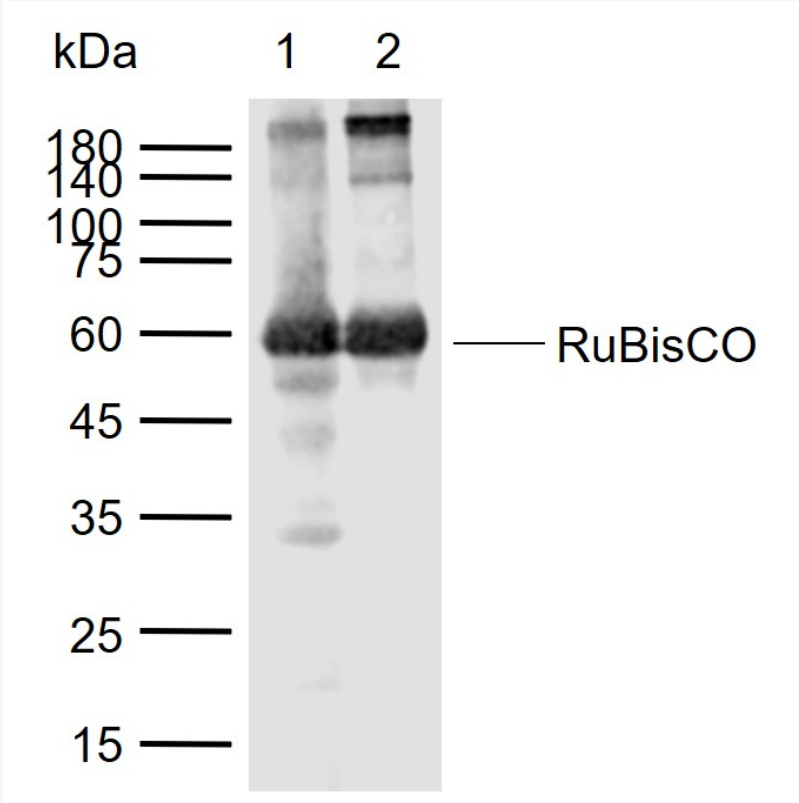
**Product Picture**




Sample:

Lane 1: Brassica oleracea L. leaves (Plant) lysates

Lane 2: Chinese cabbage leaves (Plant) lysates

Primary: Anti-RuBisCO (SLM-33226M) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution

Predicted band size: 52 kDa

Observed band size: 58 kDa