bsm-33226M **[Primary Antibody]**

RuBisCO Mouse mAb

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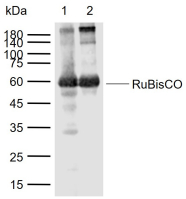
DATASHEET

Host: Mouse
Isotype: IgG
Clonality: Monoclonal
CloneNo.: 3G5
Target: RuBisCO
Purification: affinity purified by Protein G
Concentration: 1mg/ml
Storage: Size : 50ul/100ul/200ul
0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Size : 200ug (PBS only)
0.01M PBS
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background: 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.

Applications: **WB** (1:500-2000)
Reactivity: Arabidopsis Thaliana
Predicted MW.: 52 kDa
Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: Lane 1: Brassica oleracea L. leaves (Plant) lysates Lane 2: Chinese cabbage leaves (Plant) lysates Primary: Anti-RuBisCO (bsm-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

SELECTED CITATIONS

- **[IF=8.2]** Wen Wang. et al. Characterization of a novel γ-type carbonic anhydrase, Sjγ-CA2, in Saccharina japonica: Insights into carbon concentration mechanism in macroalgae. INT J BIOL MACROMOL. 2024 Apr;263:130506 WB ;Saccharina japonica. 38423426
- **[IF=4.9]** Qilei Zhang. et al. Adaptation of the Invasive Plant Sphagneticola trilobata to Flooding Stress by Hybridization with Native Relatives. INT J MOL SCI. 2024 Jan;25(12):6738 WB ;Sphagneticola trilobata. 38928441