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Rubisco Recombinant Mouse mAb

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Catalog # AP94643

Product Information

Application	WB
Host	Rabbit
Clonality	Recombinant
Calculated MW	52 KDa
Physical State	Liquid
Isotype	IgG1, Kappa
Purity	affinity purified by Protein G
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Plastid, chloroplast.
SIMILARITY	Belongs to the RuBisCO large chain family. Type I subfamily.
SUBUNIT	Heterohexadecamer of 8 large chains and 8 small chains.
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. The disulfide bonds reported in 1RBO may be the result of oxidation during crystallization.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Dilution	WB=1:500-1:2000
Format	0.01M TBS(pH7.4) with 1% BSA, 0.09% (W/V) sodium azide and 50% Glyce
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Background

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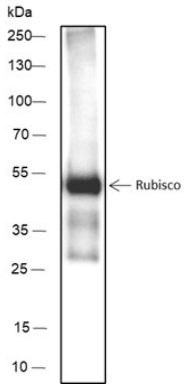
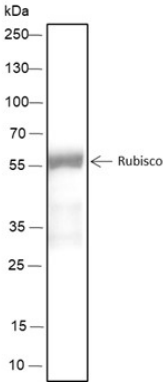
Images



Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:2000 Primary ab incubation condition: room temperature 2h Secondary ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: Rice Protein loading quantity: 0.008 μg Exposure time: 10 s Predicted MW: 55 kDa Observed MW: 55 kDa



Blocking buffer: 5% NFDM/TBST Primary ab dilution: 1:2000 Primary ab incubation condition: room temperature 2h Secondary ab: Goat Anti-Mouse IgG H&L (HRP) Lysate: Arabidopsis thaliana Protein loading quantity: 5 μg Exposure time: 10 s Predicted MW: 55 kDa Observed MW: 55 kDa