RGA1 Rabbit pAb

Catalog NO.: A19214

Basic Information

Observed MW
44.2kDa

Calculated MW
44kDa

Category
Polyclonal Antibodies

Applications
WB, ELISA

Cross-Reactivity
Oryza sativa

Background

This? gene Ubiquitous expression in leaves before flowering (RPKM 48.7), leaves after flowering (RPKM 36.4) and 6 other tissues. It encodes protein Alpha subunit of G proteins (guanine nucleotide binding). G-alpha has three isomers, guanine nucleotide-binding protein alpha-1 subunit isoform X1，guanine nucleotide-binding protein alpha-1 subunit isoform X2，and guanine nucleotide-binding protein alpha-1 subunit isoform X3.RGA1 is one of the regulators in salt response partially through ROS scavenging, which might be helpful in elucidating salt tolerant mechanisms of heterotrimeric G protein in rice(PMID 30621186). The α-subunit of the rice heterotrimeric G protein, RGA1, regulates drought tolerance during the vegetative phase in the dwarf rice mutant d1 (PMID 27194741).? The Gα heterotrimeric G protein subunit, RGA1,? plays an important role in regulating photoprotection and photoprotection of rice (PMID 29216416).

Recommended Dilutions

WB	1:500 - 1:2000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
4338448

Swiss Prot
Q0DJ33

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
D1; GA1; GPA1; RGA1; GP-alpha-1; OJ1005_D04.15

Contact

Product Information

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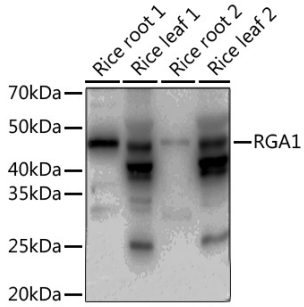
Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

Validation Data



Western blot analysis of various lysates using RGA1 Rabbit pAb (A19214) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:8000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.

For research use only. Not for therapeutic or diagnostic purposes.

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