

Datasheet for 100-401-E83**Aha2 Antibody****Overview**

Description:	Anti-Aha2 (RABBIT) Antibody - 100-401-E83
Item No.:	100-401-E83
Size:	100 µg
Applications:	IF
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	The Arabidopsis protein RIN4 is a well known regulator of plant immunity. The plasma membrane H ⁺ -ATPases Aha1 and Aha2 are one class of RIN4-associated proteins. Aha1 and Aha2 play a crucial role in resisting pathogen invasion- plants use RIN4 to regulate H ⁺ -ATPase activity during immune responses, thereby controlling stomatal apertures during pathogen attack. Wild type AHA2 has been found to be localized to the plasma membrane, and has also been found in the ER.
Synonyms:	ATPase hydrogen-exporting ATPase 2, ATPase 2, plasma membrane-type, Proton pump 2, AHA2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	AHA2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	Aha2 Antibody was produced from whole rabbit serum prepared by repeated immunizations with Aha2.

Purity/Specificity: Anti-Aha 2 Antibody was purified by Protein A chromatography. A BLAST analysis was used to suggest cross-reactivity with Aha 2 from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. Cross reacts with Aha1. Cross-reactivity with Aha2 from other sources has not been determined. Heat Shock research.

Relevant Links:

- [GeneID - 130872](#)

Application Details

Tested Applications: IF

Application Note: Anti-Aha2 Antibody is suitable for use in WB. Specific conditions for reactivity should be optimized by the end user.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

WB: User Optimized

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

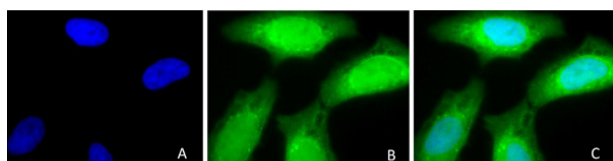
Shipping & Handling

Shipping Condition: Dry Ice

Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunocytochemistry/Immunofluorescence results of Rabbit Anti-Aha2 Antibody. Tissue: Heat Shocked Human Cervical cancer cell line (HeLa) [Heat Shocked at 42°C for 1h.]. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-AHA2 Polyclonal Antibody at 1:80 for 12 hours at 4°C. Secondary Antibody: FITC Goat Anti-Rabbit (green) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40,000 for 2 hours at RT. Localization: Nucleus. Cytoplasm. Magnification: 100x. (A) DAPI (blue) nuclear stain. (B) Anti-AHA2 Antibody. (C) Composite.



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Immunocytochemistry/Immunofluorescence Results of Rabbit Anti-AHA2 Antibody. Tissue: Heat Shocked Human Cervical cancer cell line (HeLa) [Heat Shocked at 42°C for 1h.]. Fixation: 2% Formaldehyde for 20 min at RT. Primary Antibody: Rabbit Anti-AHA2 Polyclonal Antibody at 1:80 for 12 hours at 4°C. Secondary Antibody: R-PE Goat Anti-Rabbit (yellow) at 1:200 for 2 hours at RT. Counterstain: DAPI (blue) nuclear stain at 1:40,000 for 2 hours at RT. Localization: Nucleus. Cytoplasm. Magnification: 20x. (A) DAPI (blue) nuclear stain. (B) Anti-AHA2 Antibody. (C) Composite.

Disclaimer

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