Datasheet for ABIN968790

# anti-ARHGAP4 antibody (AA 843-955)

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## Overview

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|---|---|
| Quantity: | 50 µg |
| Target: | ARHGAP4 |
| Binding Specificity: | AA 843-955 |
| Reactivity: | Mouse, Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This ARHGAP4 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunofluorescence (IF) |

## Product Details

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| Immunogen: | Rat p115 aa. 843-955 |
| Clone: | 15-p115 |
| Isotype: | IgG1 |
| Cross-Reactivity: | Mouse (Murine) |
| Characteristics: | 1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.<br>2. Please refer to us for technical protocols.<br>3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.<br>4. Source of all serum proteins is from USDA inspected abattoirs located in the United States. |
| Purification: | The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity |

## Product Details

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| | chromatography. |

## Target Details

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| Target: | ARHGAP4 |
| Alternative Name: | p115 (ARHGAP4 Products) |
| Background: | Maturation and post translational modification of proteins occurs after their biosynthesis at the endoplasmic reticulum and their transport through the Golgi apparatus. The process involves the transport of vesicles carrying the proteins through a vectorial process of vesicle budding and fusion from the cis-compartment to the medial-compartment and the trans-compartment of the Golgi apparatus. p115 is a 959 amino acid protein located at the Golgi apparatus that, with the NEM-sensitive fusion protein and the soluble NSF attachment protein (SNAP), is required for vesicle transport from the cis-compartment to the medial-compartment. p115 protein is related to the yeast Uso1p essential for the vesicular transport from the endoplasmic reticulum to the Golgi. Native p115 appears to be a homo-oligomer, with two globular heads and a tail that resemble the overall structure of myosin. p115 is extracted from the Golgi apparatus with high salt or high pH, indicative of a membrane associated protein. p115 interacts with the golgi matrix protein GM130 but this interaction is disrupted by the Golgi fragmentation during mitosis and the phosphorylation of GM130. This antibody is routinely tested by western blot analysis. |
| Molecular Weight: | 115 kDa |
| Pathways: | Neurotrophin Signaling Pathway, Regulation of Cell Size |

## Application Details

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| Comment: | Related Products: ABIN968545, ABIN967389 |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Concentration: | 250 µg/mL |
| Buffer: | Aqueous buffered solution containing BSA, glycerol, and ≤0.09 % sodium azide. |
| Preservative: | Sodium azide |

## Handling

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| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store undiluted at -20° C. |

## Publications

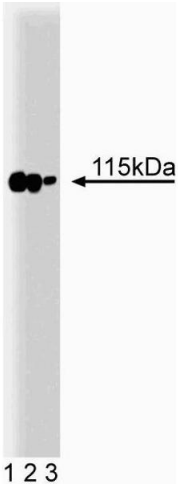
Product cited in:

Mary, Charrasse, Meriane, Comunale, Travo, Blangy, Gauthier-Rouvière: "Biogenesis of N-cadherin-dependent cell-cell contacts in living fibroblasts is a microtubule-dependent kinesin-driven mechanism." in: **Molecular biology of the cell**, Vol. 13, Issue 1, pp. 285-301, (2002) ( PubMed).

Barroso, Nelson, Sztul: "Transcytosis-associated protein (TAP)/p115 is a general fusion factor required for binding of vesicles to acceptor membranes." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 92, Issue 2, pp. 527-31, (1995) ( PubMed).

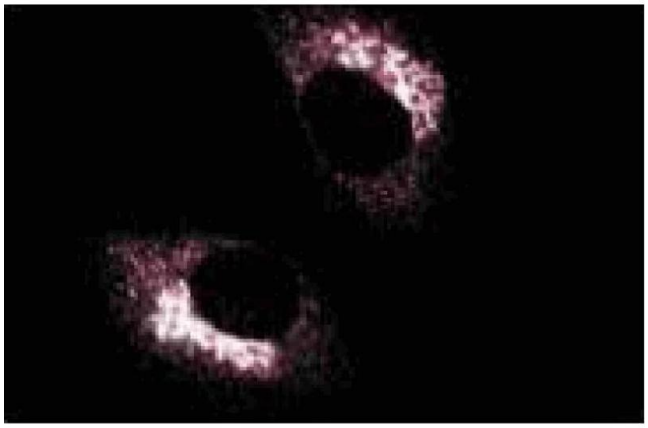
Waters, Clary, Rothman: "A novel 115-kD peripheral membrane protein is required for intercisternal transport in the Golgi stack." in: **The Journal of cell biology**, Vol. 118, Issue 5, pp. 1015-26, (1992) (PubMed).

## Images




**Western Blotting**

**Image 1.** Western blot analysis of p115 on a rat cerebrum lysate. Lane 1: 1:2500, lane 2: 1:5000, lane 3: 1:10000 dilution of the anti- p115 antibody.



**Immunofluorescence**

**Image 2.** Immunoflourescence staining of normal rat kidney.