10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Anti-CAPRI Antibody

Catalog # AP51836

## Product Information

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|---|---|
| **Application** | WB, IHC, IF/IC |
| **Primary Accession** | O43374 |
| **Reactivity** | Human, Mouse, Rat |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 90458 |

## Additional Information

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|---|---|
| **Gene ID** | 10156 |
| **Other Names** | CAPRI; GAPL; KIAA0538; Ras GTPase-activating protein 4; Calcium-promoted Ras inactivator; Ras p21 protein activator 4; RasGAP-activating-like protein 2 |
| **Target/Specificity** | KLH-conjugated synthetic peptide encompassing a sequence within the center region of human CAPRI. The exact sequence is proprietary. |
| **Dilution** | WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A |
| **Format** | Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide. |
| **Storage** | Store at -20 °C.Stable for 12 months from date of receipt |

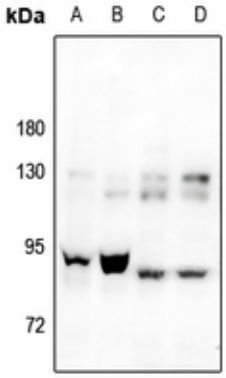
## Protein Information

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|---|---|
| **Name** | RASA4 |
| **Synonyms** | CAPRI, GAPL, KIAA0538 |
| **Function** | Ca(2+)-dependent Ras GTPase-activating protein, that switches off the Ras-MAPK pathway following a stimulus that elevates intracellular calcium. Functions as an adaptor for Cdc42 and Rac1 during FcR-mediated phagocytosis. |
| **Cellular Location** | Cytoplasm, cytosol. Cell membrane; Peripheral membrane protein. Note=Localized to the cytosol as a result of its lack of phosphoinositide binding activity. Upon agonist-stimulated calcium mobilization, utilizes the C2A and C2B domains to associate with the plasma membrane |
| **Tissue Location** | Widely expressed.. |

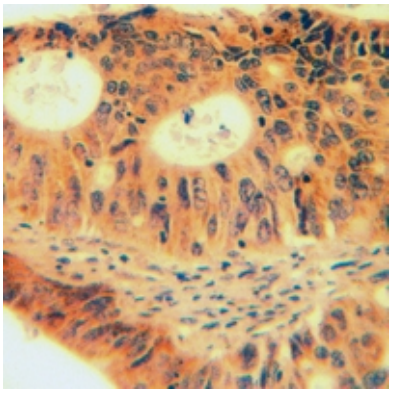
## References

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Nagase T.,et al.DNA Res. 5:31-39(1998).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Hillier L.W.,et al.Nature 424:157-164(2003).

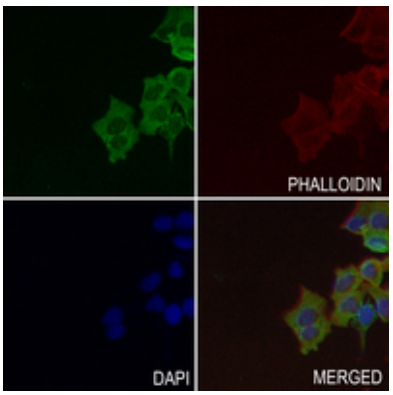
## Images




Western blot analysis of CAPRI expression in NIHC3T3 (A), PC12 (B), HEK293T (C), SGC7901 (D) whole cell lysates. (Predicted band size: 90 kD; Observed band size: 90 kD)



Immunohistochemical analysis of CAPRI staining in human lung cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.




Immunofluorescent analysis of CAPRI staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.