

## Product datasheet for **TA349500**

### Arg 3.1 (ARC) Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | IHC, WB  |
| Recommended Dilution:   | ELISA: 2000-5000, WB: 500-2000, IHC: 50-200  |
| Reactivity:             | Human, Mouse   |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Fusion protein of human ARC  |
| Formulation:            | pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol   |
| Concentration:          | lot specific   |
| Purification:           | Antigen affinity purification  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 45 kDa   |
| Gene Name:              | activity-regulated cytoskeleton-associated protein   |
| Database Link:          | <a href="#">NP_056008</a><br><a href="#">Entrez Gene 11838 Mouse</a> <a href="#">Entrez Gene 23237 Human</a><br><a href="#">Q7LC44</a> |

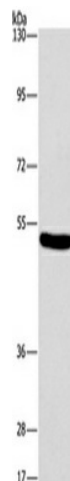
**Background:** Arc (for activity-regulated cytoskeleton-associated protein) is a growth factor and immediate early gene that is enriched in brain. Arc mRNA and protein levels are induced by neuronal activity, which is necessary to stimulate neuroplasticity, indicating a potential role for Arc in activity-dependent changes in dendrite function. Arc expression has been detected in neuronal cell bodies and dendrites in the hippocampus, amygdala, hypothalamus, striatum and cortex. Arc has been shown to localize to the cytoskeleton of neuronal cells and appears to colocalize with F-Actin, although it may associate with an Actin-associated protein rather than directly with F-Actin. It has been shown that cocaine-stimulated neuronal activity results in increased Arc mRNA levels in striatum.



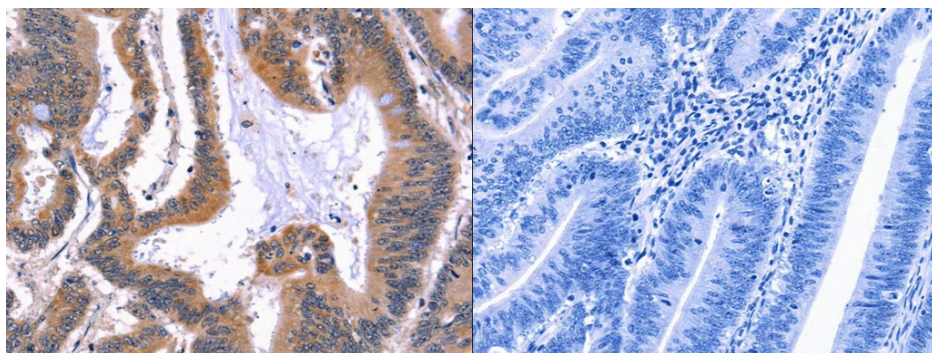
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Synonyms: Arg3.1

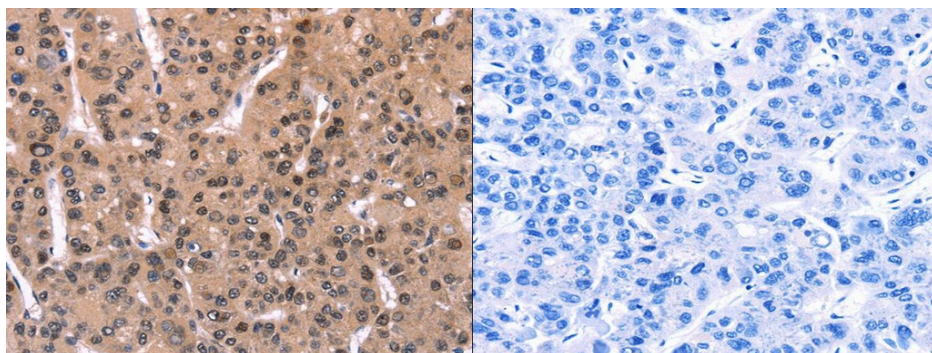
### Product images:



Gel: 6%SDS-PAGE, Lysate: 40 ug, Lane: Mouse brain tissue, Primary antibody: (ARC Antibody) at dilution 1/597, Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution, Exposure time: 1 minute



The image on the left is immunohistochemistry of paraffin-embedded Human colon cancer tissue using (ARC Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )



The image on the left is immunohistochemistry of paraffin-embedded Human liver cancer tissue using (ARC Antibody) at dilution 1/50, on the right is treated with fusion protein. (Original magnification:  $\times 200$ )