

## Product datasheet for **TA324114**

### ADCY4 Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | IHC  |
| Recommended Dilution: | IHC: 25-100<br>Positive control: Human thyroid cancer<br>Predicted cell location: Cytoplasm  |
| Reactivity:           | Human, Mouse, Rat  |
| Host:                 | Rabbit   |
| Isotype:              | IgG  |
| Clonality:            | Polyclonal   |
| Immunogen:            | Fusion protein corresponding to a region derived from 808-1077 amino acids of human adenylate cyclase 4  |
| Formulation:          | PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% 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.   |
| Gene Name:            | adenylate cyclase 4  |
| Database Link:        | <a href="#">NP_640340</a><br><a href="#">Entrez Gene 54223 Rat</a> <a href="#">Entrez Gene 104110 Mouse</a> <a href="#">Entrez Gene 196883 Human</a><br><a href="#">Q8NFM4</a>   |
| Background:           | This gene encodes a member of the family of adenylate cyclases, which are membrane-associated enzymes that catalyze the formation of the secondary messenger cyclic adenosine monophosphate (cAMP). Mouse studies show that adenylate cyclase 4, along with adenylate cyclases 2 and 3, is expressed in olfactory cilia, suggesting that several different adenylate cyclases may couple to olfactory receptors and that there may be multiple receptor-mediated mechanisms for the generation of cAMP signals. Alternative splicing results in transcript variants. |



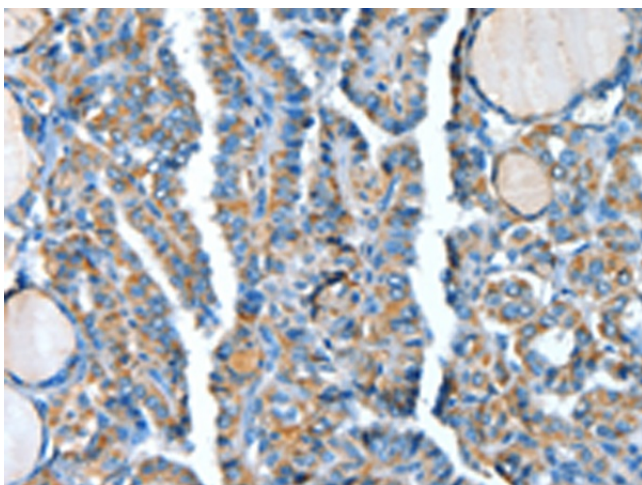
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**Synonyms:** AC4

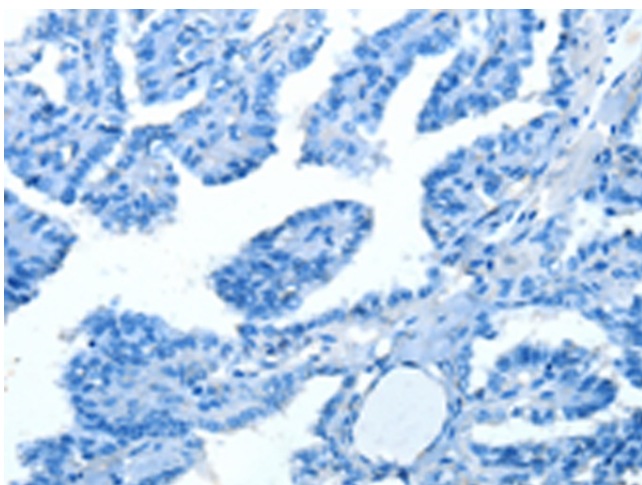
**Protein Families:** Druggable Genome, Transmembrane

**Protein Pathways:** Calcium signaling pathway, Chemokine signaling pathway, Dilated cardiomyopathy, Gap junction, GnRH signaling pathway, Melanogenesis, Oocyte meiosis, Progesterone-mediated oocyte maturation, Purine metabolism, Taste transduction, Vascular smooth muscle contraction

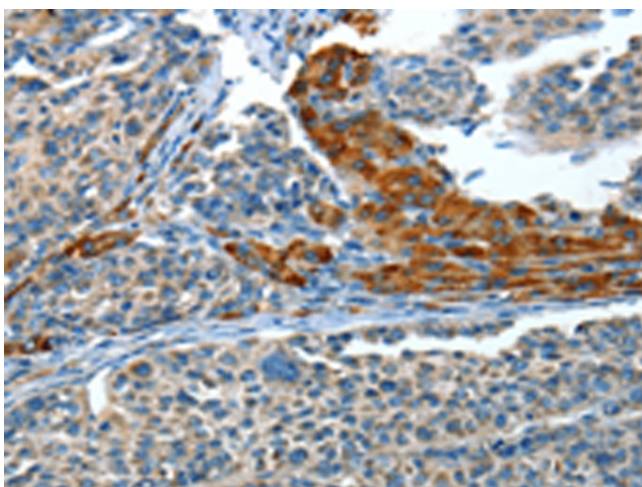
**Product images:**



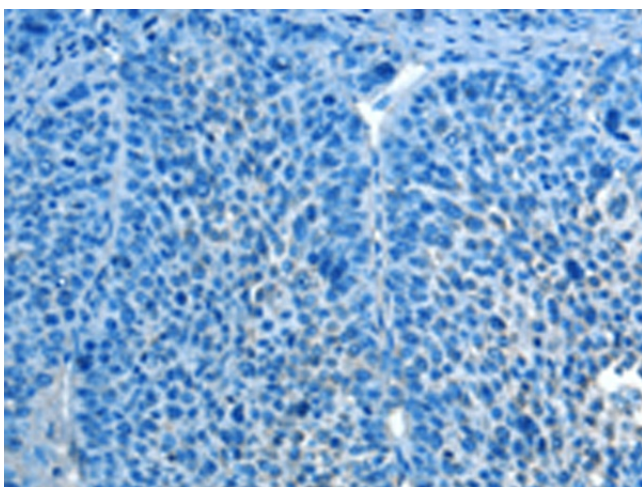
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA324114 (ADCY4 Antibody) at dilution 1/30 (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using TA324114 (ADCY4 Antibody) at dilution 1/30, treated with fusion protein. (Original magnification: x200)



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA324114 (ADCY4 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA324114 (ADCY4 Antibody) at dilution 1/30, treated with fusion protein. (Original magnification:  $\times 200$ )