

## Product datasheet for **CF501641**

### Adenylate kinase 5 (AK5) Mouse Monoclonal Antibody [Clone ID: OTI2G4]

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Clone Name:             | OTI2G4   |
| Applications:           | FC, IHC, WB  |
| Recommended Dilution:   | WB 1:2000, IHC 1:150, FLOW 1:100   |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Mouse  |
| Isotype:                | IgG1   |
| Clonality:              | Monoclonal   |
| Immunogen:              | Full length human recombinant protein of human AK5 (NP_777283) produced in HEK293T cell.   |
| Formulation:            | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)  |
| Reconstitution Method:  | For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific) |
| Purification:           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 63.2 kDa   |
| Gene Name:              | adenylate kinase 5   |
| Database Link:          | <a href="#">NP_777283</a><br><a href="#">Entrez Gene 229949 Mouse</a> <a href="#">Entrez Gene 26289 Human</a><br><a href="#">Q9Y6K8</a>  |



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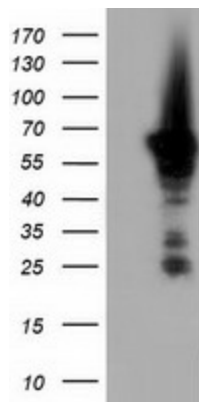
**Background:** This gene encodes a member of the adenylate kinase family, which is involved in regulating the adenine nucleotide composition within a cell by catalyzing the reversible transfer of phosphate groups among adenine nucleotides. This member is related to the UMP/CMP kinase of several species. It is located in the cytosol and expressed exclusively in brain. Alternatively spliced transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]

**Synonyms:** AK6

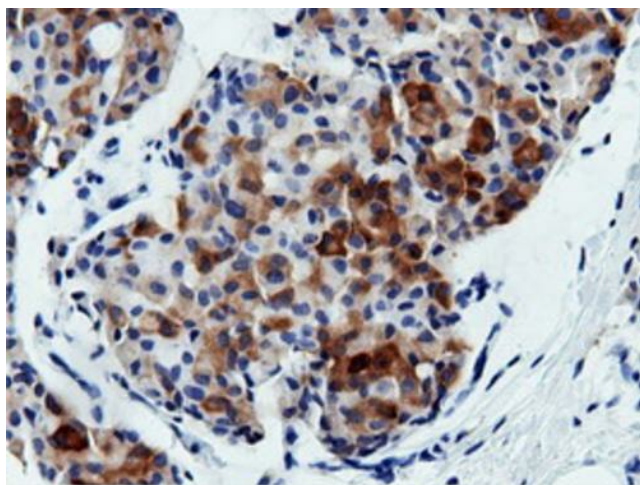
**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Purine metabolism

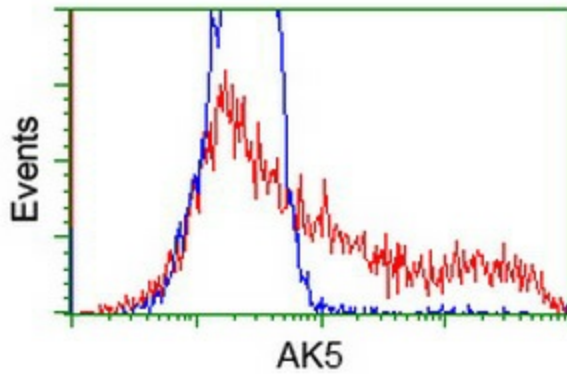
### Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY AK5 ([RC222241], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-AK5. Positive lysates [LY403569] (100ug) and [LC403569] (20ug) can be purchased separately from OriGene.



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-AK5 mouse monoclonal antibody. Heat-induced epitope retrieval by EDTA solution buffer pH 8.0 at 120°C for 3 min.



HEK293T cells transfected with either [RC222241] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-AK5 antibody ([TA501641]), and then analyzed by flow cytometry.