

# Product datasheet for TA321448

## Aconitase 1 (ACO1) Rabbit Polyclonal Antibody

### **Product data:**

#### OriGene Technologies, Inc.

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| Product Type:         | Primary Antibodies   |
|-----------------------|--|
| Applications:         | IHC  |
| Recommended Dilution: |  |
| Reactivity:           | Human, Mouse, Rat  |
| Host:                 | Rabbit   |
| lsotype:              | IgG  |
| Clonality:            | Polyclonal   |
| Immunogen:            | Synthetic peptide corresponding to a region derived from 132-146 amino acids of human aconitase 1, soluble   |
| Formulation:          | PBS pH7.3, 0.05% NaN3, 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:            | aconitase 1  |
| Database Link:        | <u>NP_002188</u><br><u>Entrez Gene 11428 MouseEntrez Gene 50655 RatEntrez Gene 48 Human</u><br><u>P21399</u>   |
| Background:           | Aconitase 1; also known as iron regulatory element binding protein 1 (IREB1); is a cytosolic protein which binds to iron-responsive elements (IREs). IREs are stem-loop structures found in the 5' UTR of ferritin mRNA; and in the 3' UTR of transferrin receptor mRNA. The iron-induced binding to the IRE results in repression of translation of ferritin mRNA; and inhibition of degradation of the otherwise rapidly degrading transferrin receptor mRNA. Thus; IREB1 plays a central role in cellular iron homeostasis. It was also shown to have aconitase activity; and hence grouped with the aconitase family of enzymes. |



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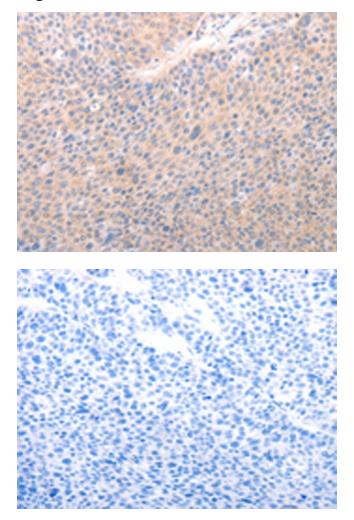
## Sconitase 1 (ACO1) Rabbit Polyclonal Antibody – TA321448

Synonyms: ACONS; HEL60; IREB1; IREBP; IREBP1; IRP1

Protein Families: Druggable Genome

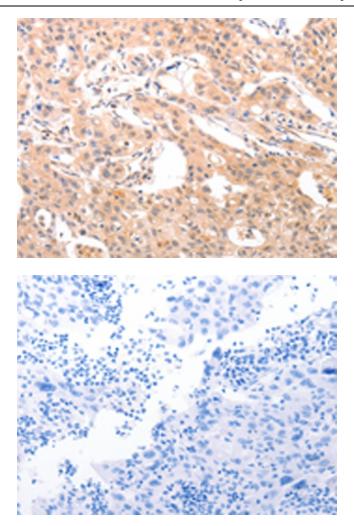
**Protein Pathways:** Citrate cycle (TCA cycle), Glyoxylate and dicarboxylate metabolism, Metabolic pathways

### **Product images:**



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321448 (ACO1 Antibody) at dilution 1/50 (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human liver cancer tissue using TA321448 (ACO1 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification: ×200)

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Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA321448 (ACO1 Antibody) at dilution 1/50 (Original magnification: ×200)

Immunohistochemistry of paraffin-embedded Human lung cancer tissue using TA321448 (ACO1 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification: ×200)

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