

## Product datasheet for **TA351900S**

### **TAB1 Rabbit Polyclonal Antibody**

#### **Product data:**

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | IHC  |
| Recommended Dilution: | IHC: 25-100<br>Positive control: Human liver cancer<br>Predicted cell location: Nucleus and Cytoplasm                                  |
| Reactivity:           | Human, Mouse   |
| Host:                 | Rabbit   |
| Isotype:              | IgG  |
| Clonality:            | Polyclonal   |
| Immunogen:            | Synthetic peptide of human TAB1  |
| Formulation:          | pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol   |
| Purification:         | Antigen affinity purification  |
| Conjugation:          | Unconjugated   |
| Storage:              | Store at -20°C as received.  |
| Stability:            | Stable for 12 months from date of receipt.   |
| Gene Name:            | TGF-beta activated kinase 1/MAP3K7 binding protein 1   |
| Database Link:        | <a href="#">NP_006107</a><br><a href="#">Entrez Gene 66513 Mouse</a> <a href="#">Entrez Gene 10454 Human</a><br><a href="#">Q15750</a> |



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**Background:**

The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported.

**Synonyms:**

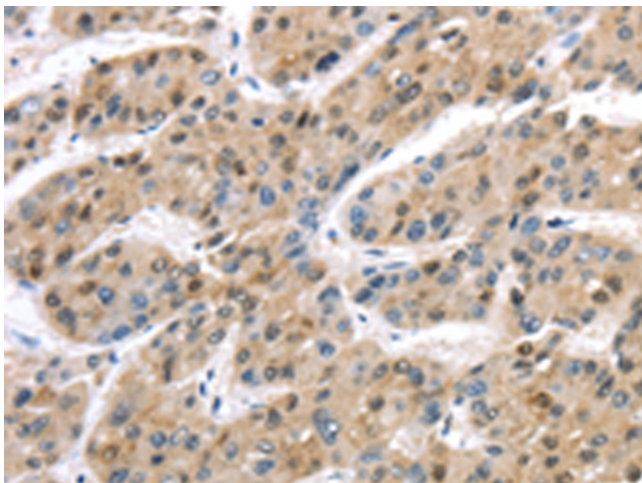
3 -Tab1; 3'-Tab1; MAP3K7IP1

**Protein Families:**

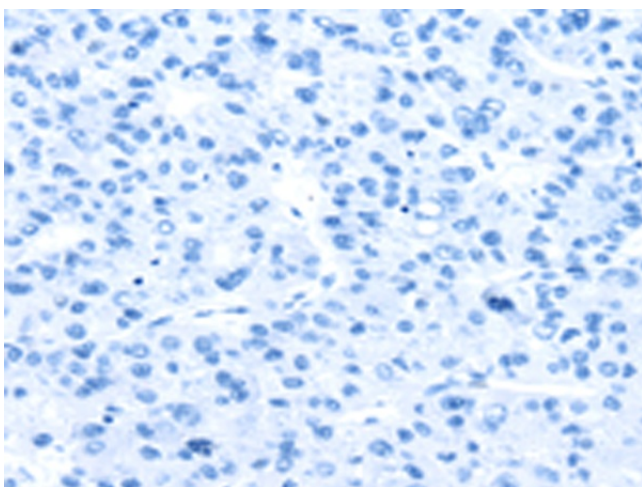
Druggable Genome

**Protein Pathways:**

MAPK signaling pathway, NOD-like receptor signaling pathway, Toll-like receptor signaling pathway

**Product images:**

Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA351900] (TAB1 Antibody) at dilution 1/30 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human liver cancer tissue using [TA351900] (TAB1 Antibody) at dilution 1/30, treated with synthetic peptide. (Original magnification: ×200)