

## Product datasheet for **TA350673S**

### FO XK1 Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | IHC  |
| Recommended Dilution: | IHC: 25-100<br>Positive control: Human esophagus cancer<br>Predicted cell location: Nucleus  |
| Reactivity:           | Human, Mouse   |
| Host:                 | Rabbit   |
| Isotype:              | IgG  |
| Clonality:            | Polyclonal   |
| Immunogen:            | Synthetic peptide of human FO XK1  |
| 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:            | forkhead box K1  |
| Database Link:        | <a href="#">NP_001032242</a><br><a href="#">Entrez Gene 17425 Mouse</a> <a href="#">Entrez Gene 221937 Human</a><br><a href="#">P85037</a> |

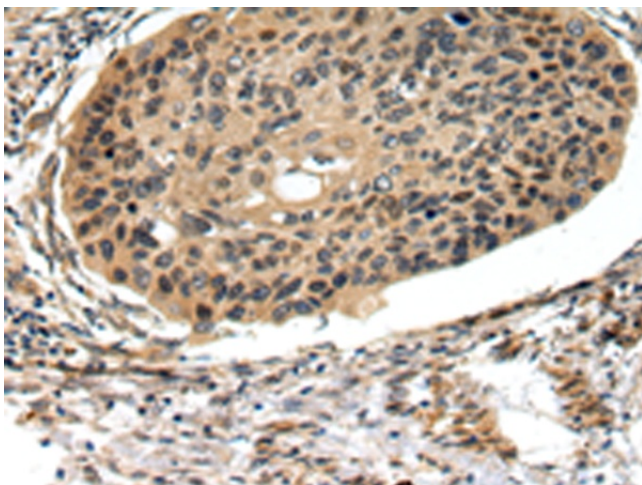
**Background:** The FOX family of transcription factors share a common DNA binding domain termed a winged-helix or forkhead domain. Many FOX proteins play important roles in development, metabolism, cancer and aging. In skeletal muscles, undifferentiated myogenic stem cells (satellite cells) can mobilize to regenerate myofibers in response to injury. FO XK1 is expressed in these cells and regulates cell cycle progression through an interaction with its downstream target the cyclin-dependent kinase inhibitor p21 (CIP). Loss of FO XK1 in mice results in growth retardation and a severe impairment in skeletal muscle regeneration following injury. FO XK1 also shows expression in immature tissues of brain, eye, heart, lung and thymus. It also is predominantly expressed in many malignant tissues, such as tumors of the brain, colon and lymph node.



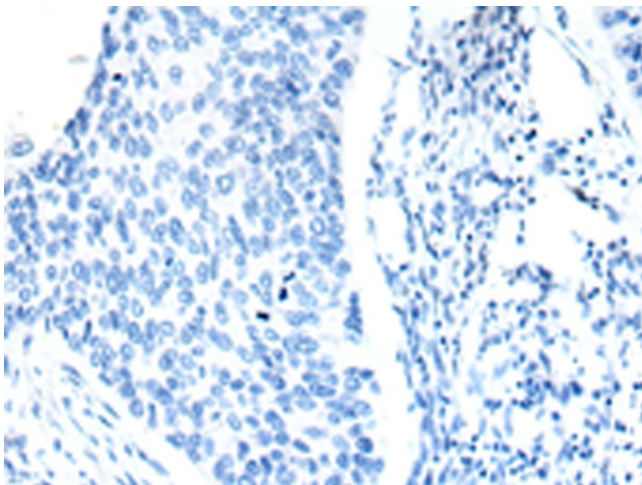
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Synonyms: FOXK1L

### Product images:



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA350673] (FOXK1 Antibody) at dilution 1/20 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human esophagus cancer tissue using [TA350673] (FOXK1 Antibody) at dilution 1/20, treated with synthetic peptide. (Original magnification:  $\times 200$ )