### Product datasheet

**Anti-STK39 antibody ab71825**

**Overview**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-STK39 antibody</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to STK39</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
<tr>
<td><strong>Tested applications</strong></td>
<td>Suitable for: ICC/IF, IHC-P, WB</td>
</tr>
<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Mouse, Human</td>
</tr>
<tr>
<td><strong>Immunogen</strong></td>
<td>Synthetic peptide from the central region of human STK39 conjugated to KLH</td>
</tr>
<tr>
<td><strong>Positive control</strong></td>
<td>Mouse liver tissue lysate. Human hepatocarcinoma tissue.</td>
</tr>
</tbody>
</table>

**Properties**

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | Preservative: 0.09% Sodium Azide  
Constituents: PBS |
| **Purity**     | Ammonium Sulphate Precipitation |
| **Purification notes** | ab71825 is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| **Clonality**  | Polyclonal |
| **Isotype**    | IgG     |

**Applications**

Our [Abpromise guarantee](https://www.abcam.com/abpromise) covers the use of ab71825 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
</tr>
<tr>
<td>IHC-P</td>
<td></td>
<td>1/50 - 1/100.</td>
</tr>
</tbody>
</table>
Function
May act as a mediator of stress-activated signals.

Tissue specificity
Predominantly expressed in brain and pancreas followed by heart, lung, kidney, skeletal muscle, liver, placenta and testis.

Sequence similarities
Belongs to the protein kinase superfamily. STE Ser/Thr protein kinase family. STE20 subfamily. Contains 1 protein kinase domain.

Domain
PAPA box (proline-alanine repeats) may target the kinase to a specific subcellular location by facilitating interaction with intracellular proteins such as actin or actin-like proteins.

Cellular localization

Images

Western blot - Anti-STK39 antibody (ab71825)

\[
\begin{array}{c}
250 \\
150 \\
100 \\
75 \\
50 \\
37 \\
25 \\
20 \\
10 \\
\end{array}
\]

Anti-STK39 antibody (ab71825) at 1/100 dilution + mouse liver tissue lysate at 12.5 µg

Secondary
HRP-anti-rabbit

Predicted band size: 60 kDa
Observed band size: 60 kDa

Additional bands at: 10 kDa, 65 kDa. We are unsure as to the identity of these extra bands.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-STK39 antibody (ab71825)

ab71825 at 1/50 dilution, staining STK39 in human hepatocarcinoma by Immunohistochemistry using formalin-fixed, paraffin-embedded tissue, followed by peroxidase-conjugated secondary antibody and DAB staining.
ICC/IF image of ab71825 stained MCF7 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab71825, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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- We provide support in Chinese, English, French, German, Japanese and Spanish
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