# Anti-Fbxw7 antibody ab105752

## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-Fbxw7 antibody</th>
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</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit polyclonal to Fbxw7</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>
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<tr>
<td><strong>Species reactivity</strong></td>
<td>Reacts with: Human</td>
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<tr>
<td></td>
<td>Predicted to work with: Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Caenorhabditis elegans, Drosophila melanogaster, Zebrafish</td>
</tr>
</tbody>
</table>

### Immunogen

Synthetic peptide corresponding to Human Fbxw7 aa 533-582 (C terminal). Synthetic peptide corresponding to a region within C terminal amino acids 533-582 (LKTGEFIRNL VTLESGGSGG VVWRIRASNT KLVCAVGSRN GTEETKLLVL) of Human Fbxw7 (NP_001013433; UniProt ID Q969H0-4 isoform 3).

Sequence:

```
LKTGEFIRNLVTLESGGSGGVVWRIRASNTKLVCAVGSRNGTEETKLLVL
```

Database link: [Q969H0-4](http://example.com)

### Positive control

Jurkat cell lysate This antibody gave a positive result when used in the following formaldehyde fixed cell lines: HepG2.

## Properties

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<th><strong>Form</strong></th>
<th>Liquid</th>
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<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | Preservative: 0.09% Sodium azide  
Constituents: 2% Sucrose, PBS |
| **Purity** | Immunogen affinity purified |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |

## Applications

Run BLAST with | Run BLAST with

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**Function**
Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. Probably recognizes and binds to phosphorylated target proteins. Involved in the degradation of cyclin-E, MYC, NOTCH1 released notch intracellular domain (NICD), and probably PSEN1.

**Tissue specificity**
Isoform 1 is widely expressed. Isoform 4 is expressed in brain.

**Sequence similarities**
Contains 1 F-box domain.
Contains 7 WD repeats.

**Post-translational modifications**
Phosphorylated upon DNA damage, probably by ATM or ATR.

**Cellular localization**
Cytoplasm; Nucleus; Nucleus > nucleolus and Nucleus > nucleoplasm.

**Applications**

<table>
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<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
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<tr>
<td>IHC-P</td>
<td>Use a concentration of 2.5 µg/ml.</td>
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<tr>
<td>WB</td>
<td>Use a concentration of 0.25 µg/ml. Predicted molecular weight: for isoform 4, 66 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.</td>
<td></td>
</tr>
</tbody>
</table>

**Target**

**Images**

Anti-Fbxw7 antibody (ab105752) at 0.25 µg/ml + Jurkat cell lysate at 10 µg

**Predicted band size**: for isoform 4, 66 kDa

Gel concentration: 12%
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human pineal tissue labelling Fbxw7 with ab105752 at 1/100. A Cy3-conjugated donkey anti-rabbit IgG (1/200) was used as the secondary antibody. Positive staining shown in the cytoplasm of cell bodies and processes of pinealocytes. Magnification: 20X. Exposure time: 0.5 - 2.0 seconds. Left - DAPI. Middle - Fbxw7. Right - Merge.

Immunohistochemistry (Formalin/PFA-fixed paraffin embedded sections) analysis of human kidney tissue sections labeling Fbxw7 with ab105752 at 2.5 µg/ml.

ICC/IF image of ab105752 stained HepG2 cells. The cells were 4% formaldehyde fixed (10 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 ab105752 at 10µg/ml overnight at +4°C. The secondary antibody (green) was DyLight® 488 goat anti- rabbit (ab96899) 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.
Western blot analysis of 721_B whole cell lysate labeling Fbxw7 with ab105752 at 1.0µg/ml.

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