**Product datasheet**

**Anti-HIC5 antibody ab42476**

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**Overview**

**Product name**
Anti-HIC5 antibody

**Description**
Rabbit polyclonal to HIC5

**Host species**
Rabbit

**Tested applications**
Suitable for: ICC/IF, WB, ELISA, IHC-P

**Species reactivity**
Reacts with: Rat, Human

**Predicted to work with**: Mouse, Cow, Dog

**Immunogen**
Synthetic peptide within Human HIC5 aa 196-245 (internal sequence). The exact sequence is proprietary.

Sequence:
PEPTKGGLDLMGLQSDLSRRGVPTQAKGLCGSC

Database link: O43294

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**Properties**

**Form**
Liquid

**Storage instructions**
Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

**Storage buffer**
Preservative: 0.09% Sodium azide

Constituents: 2% Sucrose, PBS

**Purity**
Immunogen affinity purified

**Clonality**
Polyclonal

**Isotype**
IgG

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**Applications**

Our Abpromise guarantee covers the use of ab42476 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
**Function**
Functions as a molecular adapter coordinating multiple protein-protein interactions at the focal adhesion complex and in the nucleus. Links various intracellular signaling modules to plasma membrane receptors and regulates the Wnt and TGFβ signaling pathways. May also regulate SLC6A3 and SLC6A4 targeting to the plasma membrane hence regulating their activity. In the nucleus, functions as a nuclear receptor coactivator regulating glucocorticoid, androgen, mineralocorticoid and progesterone receptor transcriptional activity. May play a role in the processes of cell growth, proliferation, migration, differentiation and senescence. May have a zinc-dependent DNA-binding activity.

**Tissue specificity**
Expressed in platelets, smooth muscle and prostate stromal cells (at protein level).

**Sequence similarities**
Belongs to the paxillin family.
Contains 4 LIM zinc-binding domains.

**Domain**
The LIM zinc-binding domains mediate glucocorticoid receptor coactivation and interaction with AR, CRIP2, ILK, LIMS1, NR3C1, PPARγ, TCF3, TCF7L2, SLC6A3 and SMAD3. The LIM zinc-binding 2 and LIM zinc-binding 3 domains mediate targeting to focal adhesions and actin stress fibers. The LIM zinc-binding 3 and LIM zinc-binding 4 domains mediate interaction with TRAF4 and MAPK15. The LIM zinc-binding 4 domain mediates interaction with HSPB1, homooligomerization and targeting to the nuclear matrix. The LIM zinc-binding 3 domain mediates interaction with PTPN12.
The LD (leucine and aspartate-rich) motif 3 mediates interaction with GIT1 and functions as a nuclear export signal.

**Post-translational modifications**
Phosphorylated by gonadotropin-releasing hormone-activated SRC.

**Cellular localization**
Cell junction > focal adhesion. Nucleus matrix. Cytoplasm > cytoskeleton. Associated with the actin cytoskeleton; colocalizes with stress fibers.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>ICC/IF</td>
<td>Use a concentration of 5 µg/ml.</td>
<td></td>
</tr>
<tr>
<td>WB</td>
<td>Use a concentration of 0.2 - 1 µg/ml. Predicted molecular weight: 48 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.</td>
<td></td>
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<tr>
<td>ELISA</td>
<td>1/12500.</td>
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<tr>
<td>IHC-P</td>
<td>Use at an assay dependent concentration.</td>
<td></td>
</tr>
</tbody>
</table>

**Target**

### Images

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Anti-HIC5 antibody (ab42476) at 1 µg/ml + Jurkat cell lysate

**Predicted band size:** 48 kDa

Ab42476 at 4.0µg/ml staining Alveolar cells of human lung. Paraffin embedded tissue. Magnification 400X
ICC/IF image of ab42476 stained Mcf7 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 (ab42476, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 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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