

Product datasheet

Anti-HIC5 antibody [4B2-D8] ab57754

1 Image

Overview

<b>Product name</b>	Anti-HIC5 antibody [4B2-D8]
<b>Description</b>	Mouse monoclonal [4B2-D8] to HIC5
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length protein, corresponding to amino acids 1-445 of Human HIC5

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None PBS, pH 7.2
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	4B2-D8
<b>Isotype</b>	IgG1
<b>Light chain type</b>	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab57754** in the following tested applications.

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

Application	Abreviews	Notes
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WB

**Application notes** WB: Use at a concentration of 1-5 µg/ml.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

## Target

### 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 TGFB 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, PPARG, 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.

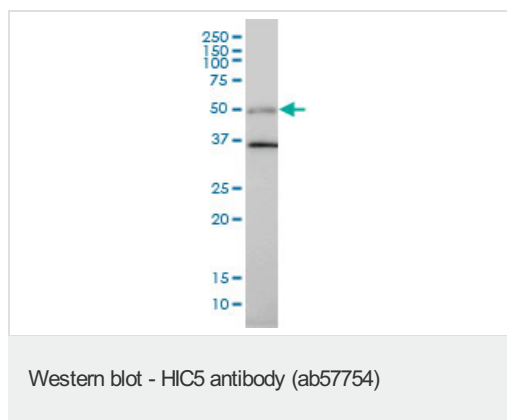
### Post-translational modifications

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.

## Images



**Predicted band size :** 48 kDa

HIC5 antibody (ab57754) at 1ug/lane + HeLa cell lysate at 25ug/lane.

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