

**HIC1 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14127b****Specification**

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**HIC1 Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q14526</a>
Other Accession	<a href="#">Q9R1Y5</a> , <a href="#">Q90850</a> , <a href="#">NP_001091672.1</a> , <a href="#">NP_006488.2</a>
Reactivity	Human
Predicted	Chicken, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	76508
Antigen Region	498-527

**HIC1 Antibody (C-term) - Additional Information****Gene ID** 3090**Other Names**

Hypermethylated in cancer 1 protein, Hic-1, Zinc finger and BTB domain-containing protein 29, HIC1, ZBTB29

**Target/Specificity**

This HIC1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 498-527 amino acids from the C-terminal region of human HIC1.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

HIC1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HIC1 Antibody (C-term) - Protein Information****Name** HIC1

## Synonyms ZBTB29

**Function** Transcriptional repressor (PubMed:[12052894](#), PubMed:[15231840](#)). Recognizes and binds to the consensus sequence '5- [CG]NG[CG]GGGCA[CA]CC-3' (PubMed:[15231840](#)). May act as a tumor suppressor (PubMed:[20154726](#)). Involved in development of head, face, limbs and ventral body wall (By similarity). Involved in down- regulation of SIRT1 and thereby is involved in regulation of p53/TP53- dependent apoptotic DNA-damage responses (PubMed:[16269335](#)). The specific target gene promoter association seems to be depend on corepressors, such as CTBP1 or CTBP2 and MTA1 (PubMed:[12052894](#), PubMed:[20547755](#)). In cooperation with MTA1 (indicative for an association with the NuRD complex) represses transcription from CCND1/cyclin-D1 and CDKN1C/p57Kip2 specifically in quiescent cells (PubMed:[20547755](#)). Involved in regulation of the Wnt signaling pathway probably by association with TCF7L2 and preventing TCF7L2 and CTNNB1 association with promoters of TCF-responsive genes (PubMed:[16724116](#)). Seems to repress transcription from E2F1 and ATOH1 which involves ARID1A, indicative for the participation of a distinct SWI/SNF-type chromatin-remodeling complex (PubMed:[18347096](#), PubMed:[19486893](#)). Probably represses transcription of ACKR3, FGFBP1 and EFNA1 (PubMed:[16690027](#), PubMed:[19525223](#), PubMed:[20154726](#)).

## Cellular Location

Nucleus.

## Tissue Location

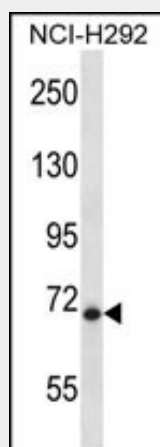
Ubiquitously expressed with highest levels found in lung, colon, prostate, thymus, testis and ovary. Expression is absent or decreased in many tumor cells

## HIC1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## HIC1 Antibody (C-term) - Images



HIC1 Antibody (C-term) (Cat. #AP14127b) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the HIC1 antibody detected the HIC1 protein (arrow).

#### **HIC1 Antibody (C-term) - Background**

This gene functions as a growth regulatory and tumor repressor gene. Hypermethylation or deletion of the region of this gene have been associated with tumors and the contiguous-gene syndrome, Miller-Dieker syndrome. Alternative splicing of this gene results in multiple transcript variants.

#### **HIC1 Antibody (C-term) - References**

Pehlivan, S., et al. Cancer Genet. Cytogenet. 201(2):128-132(2010)  
Van Rechem, C., et al. Mol. Cell. Biol. 30(16):4045-4059(2010)  
Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :  
Zhang, B., et al. Mol. Endocrinol. 23(12):2075-2085(2009)  
Tseng, R.C., et al. Neoplasia 11(8):763-770(2009)