

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

HIC1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q14526
Other Accession	Q9R1Y5 , Q90850 , NP_001091672.1 , NP_006488.2
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

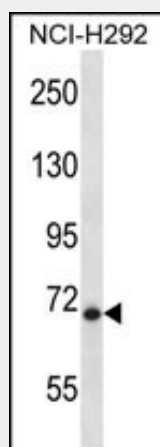
Ubiquitously expressed with highest levels found in lung, colon, prostate, thymus, testis and ovary. Expression is absent or decreased in many tumor cells

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)