

HIC1 (aa193-204) Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3831a**Specification**

HIC1 (aa193-204) Antibody (internal region) - Product Information

Application	WB
Primary Accession	Q14526
Other Accession	NP_006488.2 , NP_001091672.1 , 3090 , 15248 (mouse) , 303310 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	76508

HIC1 (aa193-204) Antibody (internal region) - Additional Information**Gene ID** 3090**Other Names**

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

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

HIC1 (aa193-204) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

HIC1 (aa193-204) Antibody (internal region) - 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

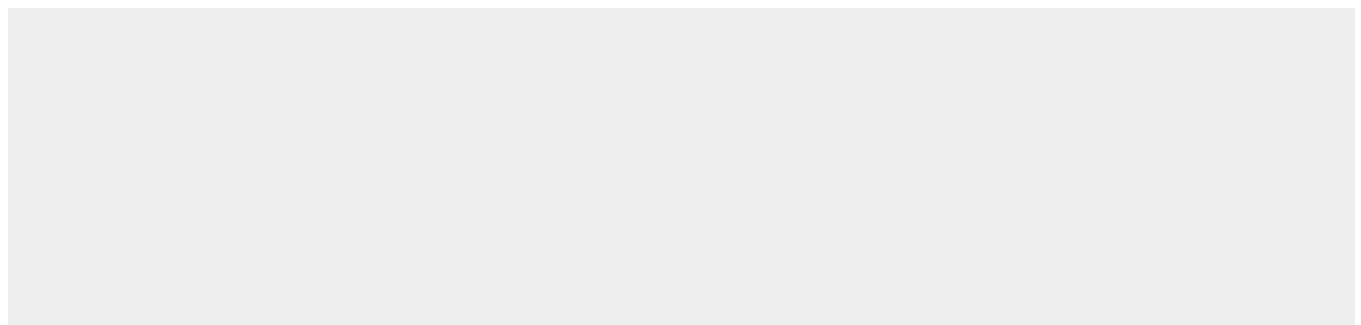
Ubiquitously expressed with highest levels found in lung, colon, prostate, thymus, testis and ovary. Expression is absent or decreased in many tumor cells

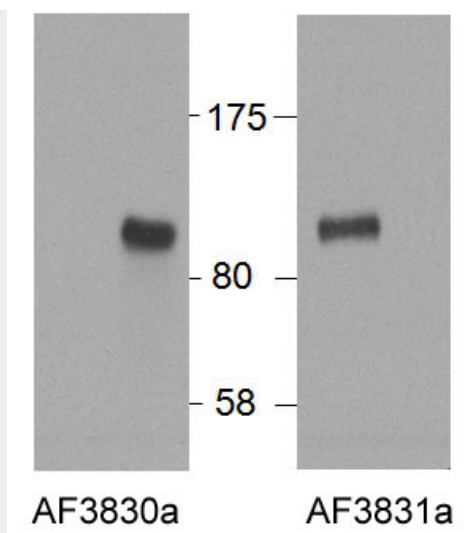
HIC1 (aa193-204) Antibody (internal region) - Protocols

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 (aa193-204) Antibody (internal region) - Images





HEK293 overexpressing Human HIC1 and probed with AF3831a (0.5ug/ml) with the mock transfection in second lane. Data obtained from Dr. D. Leprince, CNRS UMR 8161, Institut de Biologie de LILLE, France



AF3831a (1 µg/ml) staining of A549 (A) and Jurkat (B) lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

HIC1 (aa193-204) Antibody (internal region) - Background

This antibody is expected to recognize both reported isoforms (NP_006488.2; NP_001091672.1).

HIC1 (aa193-204) Antibody (internal region) - References

Identification of novel subregions of LOH in gastric cancer and analysis of the HIC1 and TOB1 tumor suppressor genes in these subregions. Yu J, Liu P, Cui X, Sui Y, Ji G, Guan R, Sun D, Ji W, Liu F, Liu A, Zhao Y, Yu Y, Jin Y, Bai J, Geng J, Xue Y, Qi J, Lee KY, Fu S. Mol Cells. 2011 Jul;32(1):47-55. PMID: 21533545