

HIC1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant HIC1.

Catalog # AT2367a

Product Information

Application	WB, IF, E
Primary Accession	Q14526
Other Accession	NM_006497
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4E12
Calculated MW	76508

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	HIC1 (NP_006488, 396 a.a. ~ 453 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	HIC1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

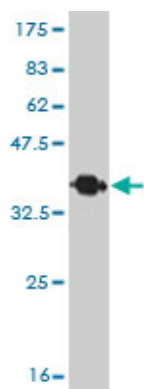
This gene functions as a growth regulatory and tumor repressor gene. Hypermethylation or deletion of the region of this gene have been associated with tumors and the contiguous-gene syndrome, Miller-Dieker syndrome. Alternative splicing of this gene results in multiple transcript variants.

References

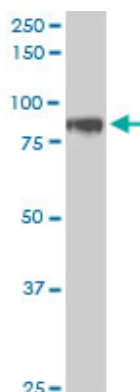
Gene methylation of SFRP2, P16, DAPK1, HIC1, and MGMT and KRAS mutations in sporadic colorectal cancer. Pehlivan S, et al. Cancer Genet Cytogenet, 2010 Sep. PMID 20682398. Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from

Scandinavia. Jugessur A, et al. PLoS One, 2010 Jul 9. PMID 20634891. Differential regulation of HIC1 target genes by CtBP and NuRD, via an acetylation/SUMOylation switch, in quiescent versus proliferating cells. Van Rechem C, et al. Mol Cell Biol, 2010 Aug. PMID 20547755. A potential tumor suppressor role for Hic1 in breast cancer through transcriptional repression of ephrin-A1. Zhang W, et al. Oncogene, 2010 Apr 29. PMID 20154726. HIC1 regulates tumor cell responses to endocrine therapies. Zhang B, et al. Mol Endocrinol, 2009 Dec. PMID 19819984.

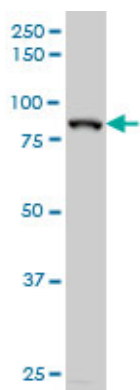
Images



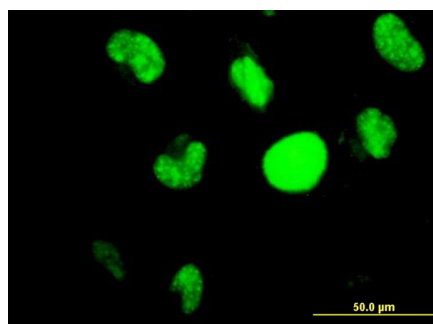
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (32.38 KDa) .



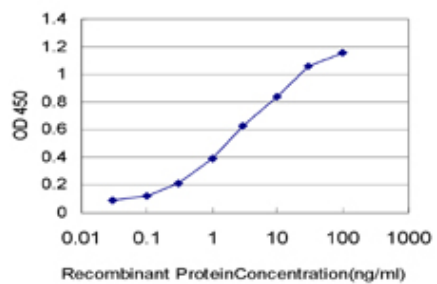
HIC1 monoclonal antibody (M01), clone 4E11. Western Blot analysis of HIC1 expression in PC-12 (Cat # AT2367a)



HIC1 monoclonal antibody (M01), clone 4E11 Western Blot analysis of HIC1 expression in Jurkat (Cat # AT2367a)



Immunofluorescence of monoclonal antibody to HIC1 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged HIC1 is approximately 0.1ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.