

Anti-ZBTB16 Antibody [E3-B3]

EM1709-42



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-cell
Molecular Wt:	74 kDa
Clone number:	E3-B3

Description: Hypermethylated in cancer (HIC-1) was originally identified as a target of p53-induced gene expression. HIC-1 is deleted in the genetic disorder Miller-Dieker syndrome (MDS). The expression of HIC-1 is also frequently suppressed in leu-kemia and other various cancers due to the hypermethylation of specific DNA regions and the resulting transcriptional silencing. These and other studies indicate that HIC-1 acts as a putative tumor suppressor protein that mediates transcriptional repression. HIC-1 is ubiquitously expressed in adult tissues and its structure is defined by five zinc fingers and an N-terminal broad-complex POZ (or BTB) domain. The BTB/POZ domain mediates homomeric and heteromeric POZ-POZ interactions and is common to transcriptional regulators involved in chromatin modeling. In several BTB/POZ containing proteins, including BCL-6 and the promyelocytic leukemia zinc finger (PLZF) oncoprotein, this domain interacts with the SMRT/N-CoR-mSin3A HDAC complex and is directly involved in repressing and silencing gene transcription. When this domain is deleted, as with the oncogenic PLZF-RAR chimera of promyelocytic leukemias, this transcriptional repression is attenuated. Conversely, HIC-1 does not interact with components of the HDAC complex, suggesting that HIC-1-induced transcriptional repression is unassociated with the POZ/BTB domain.

Immunogen:	Recombinant protein
Positive control:	Hela.
Subcellular location:	Nucleus.
Database links:	SwissProt: Q05516 Human
Recommended Dilutions:	
WB	1:500-1:2,000
IF-cell	1:50-1:200
Storage Buffer:	Purified antibody in PBS with 0.05% sodium azide.
Storage Instruction:	4°C; -20°C for long term storage.
Purity:	Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

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Images

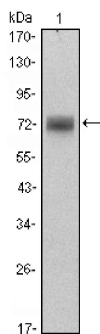


Fig1: Western blot analysis of ZBTB16 on Hela using anti-ZBTB16 antibody at 1/1,000 dilution.

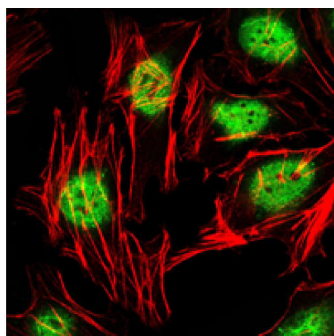


Fig2: ICC staining ZBTB16 (green) and actin filaments (red) in Hela cells. Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Yu-Ching Lin Z et al. Gene expression ontogeny of spermatogenesis in the marmoset uncovers primate characteristics during testicular development. *Dev Biol* 400(1):43-58 (2015).
2. McConnell MJ et al. Post transcriptional control of the epigenetic stem cell regulator PLZF by sirtuin and HDAC deacetylases. *Epigenetics Chromatin* 8:38 (2015).

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