**bs-15485R** **[ Primary Antibody ]**

# HIC1 Rabbit pAb

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## DATASHEET

**Host:** Rabbit **Isotype:** IgG

**Clonality:** Polyclonal

**GeneID:** 3090 **SWISS:** Q14526

**Target:** HIC1

**Immunogen:** KLH conjugated synthetic peptide derived from human HIC1: 501-650/733.

**Purification:** affinity purified by Protein A

**Concentration:** 1mg/ml

**Storage:** 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** 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), and the expression of HIC-1 is also frequently suppressed in leukemia and 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. 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.

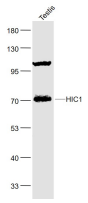
**Applications:** **WB** (1:500-2000)

**Reactivity:** Mouse (predicted: Human, Rat, Pig, Cow, Chicken, Dog, Horse)

**Predicted MW.:** 76 kDa

**Subcellular Location:** Nucleus

## VALIDATION IMAGES




Sample: Testis (Mouse) Lysate at 40 ug Primary: Anti-HIC1 (bs-15485R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 76 kD Observed band size: 72 kD

## SELECTED CITATIONS


- **[IF=9.685]** Wu, Tianqi. et al. Targeting HIC1/TGF-β axis-shaped prostate cancer microenvironment restrains its progression. CELL DEATH DIS. 2022 Jul;13(7):1-17 IHC ;Mouse, Human. 35853880
- **[IF=3.487]** Li Y et al. Loss of hypermethylated in cancer 1 (HIC1) promotes lung cancer progression.Cell Signal.

(18)30255-9 IHC ;Mouse. 30312658