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[Marker Primary Antibody]

Rabbit Anti-HIC2 /Biotin Conjugated antibody

Catalog Number: SL15486R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-HIC2 /Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human HIC2
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1000-10000 IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:50-200 IF=1:100-500 ELISA=1:500-5000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse)
Background:	background: Zinc-finger proteins contain DNA-binding domains and have a wide variety of functions, most of which encompass some form of transcriptional activation or repression. The majority of zinc-finger proteins contain a Krüppel-type DNA binding domain and a KRAB domain, which is thought to interact with KAP1, thereby recruiting histone modifying proteins. HIC-2 (hypermethylated in cancer 2) possesses zinc finger motifs that are thought to be important for DNA-binding and also has a BTB/POZ domain at the N-terminus, which is thought to be important for protein-protein binding, as well as for the binding of transcription factors. HIC-2 is also known as Hic-3, HIC1-related gene on chromosome 22 or Zinc

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	finger and BTB domain-containing protein 30, and is a 615 amino acid protein that is expressed as two isoforms produced by alternative splicing. HIC-2 is highly expressed in cerebellum and is localized to the nucleus in cells. HIC-2 contains a short amino acid sequence that is thought to interact with CtBP, a transcriptional repressor. The gene sequence associated with HIC-2 is thought to be a target for miRNAs (microRNAs) which are expressed in many cancers, suggesting that HIC-2 could possess tumor suppressor capabilities. **Function:** Transcriptional repressor. **Subunit:** Self-associates. Interacts with HIC1. **Subcellular Location:** Nucleus. **Tissue Specificity:** Highest levels in cerebellum. **Similarity:** Belongs to the krueppel C2H2-type zinc-finger protein family. Hic subfamily. Contains 1 BTB (POZ) domain. Contains 5 C2H2-type zinc fingers. **Database links:** **Entrez Gene:** 23119 Human Omim: 607712 Human **SwissProt:** Q96JB3 Human **Unigene:** 632767 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.