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Rabbit Anti-HIC2 /Cy5 Conjugated antibody

SL15486R-Cy5

Product Name	Anti-HIC2 /Cy5
Chinese Name	Cy5 标记的 Tumour 异常甲基化蛋白 2 抗体
Alias	HIC1 related gene on chromosome 22; HIC2; Hic3; HRG22; Hypermethylated in cancer 2 protein; KIAA1020; ZBTB30; Zinc finger and BTB domain-containing protein 30; ZNF907; HIC2_HUMAN.
Research Area	Chromatin and nuclear signals Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse)
Applications	ICC/IF=1:50-200,IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	66kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human HIC2
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
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.
Product Detail	**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 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.