



Rabbit Anti-HIC5 antibody

SL12436R

Product Name:	HIC5
Chinese Name:	转化生长因子β1诱导转录因子1抗体
Alias:	Androgen receptor coactivator 55 kDa protein; Androgen receptor coactivator ARA55; Androgen receptor-associated protein of 55 kDa; ARA55; Hic-5; Hydrogen peroxide-inducible clone 5 protein; TGFB1I1; TGF11_HUMAN; Transforming growth factor beta 1 induced transcript 1; Transforming growth factor beta-1-induced transcript 1 protein; TSC 5.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,Sheep,
Applications:	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	The nucleuscytoplasmicThe cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human TGFB1I1/HIC5:31-130/461
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% 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 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Hic-5 contains four LIM motifs and seven zinc finger domains. In the cell, Hic-5 localizes to the nuclear matrix and focal adhesion complexes where the LIM domains mediate the interactions of Hic-5 with focal adhesions. Known also as transforming

factor beta 1 induced transcript 1, Hic-5 shares extensive homology with the structural protein paxillin, which is involved in the regulation of focal adhesion dynamics. Hic-5 inhibits integrin-mediated cell spreading on Fibronectin by out competing paxillin for focal adhesion kinase and thereby preventing downstream signal transduction. Increased expression of Hic-5 leads to cellular senescence in developing fibroblasts. During myogenesis, expression of Hic-5 blocks differentiation and induces apoptosis of developing myoblasts. The gene encoding human Hic-5 maps to chromosome 16.

Function:

Functions as a molecular adapter coordinating multiple protein-protein interactions at the focal adhesion complex and in the nucleus. Links various intracellular signaling modules to plasma membrane receptors and regulates the Wnt and TGF β signaling pathways. May also regulate SLC6A3 and SLC6A4 targeting to the plasma membrane hence regulating their activity. In the nucleus, functions as a nuclear receptor coactivator regulating glucocorticoid, androgen, mineralocorticoid and progesterone receptor transcriptional activity. May play a role in the processes of cell growth, proliferation, migration, differentiation and senescence. May have a zinc-dependent DNA-binding activity.

Subunit:

Homooligomer. Interacts with CRIP2, HSPB1, ILK, LIMS1, LIMS2, NCK2, NUDT16L1, PAK, PPARG, PTPN12, TCF3, TCF7L2 and VCL. Forms a complex with GIT1 and ARHGEF7 (By similarity). Interacts with AR/androgen receptor in a ligand-dependent manner. Interacts with CSK, LYN, MAPK15, NR3C1, PPARG, PTK2/FAK1, PTK2B/PYK2, SLC6A3, SLC6A4, SMAD3, SRC and talin.

Subcellular Location:

Cell junction; focal adhesion. Nucleus matrix. Cytoplasm; cytoskeleton. Associated with the actin cytoskeleton; colocalizes with stress fibers.

Tissue Specificity:

Expressed in platelets, smooth muscle and prostate stromal cells (at protein level).

Post-translational modifications:

Phosphorylated by gonadotropin-releasing hormone-activated SRC.

Similarity:

Belongs to the paxillin family.
Contains 4 LIM zinc-binding domains.

SWISS:

O43294

Gene ID:

7041

Database links:

[Entrez Gene: 7041](#) Human

[Entrez Gene: 21804](#) Mouse

[Entrez Gene: 84574](#) Rat

[Entrez Gene: 515834](#) Cow

[Omim: 602353](#) Human

[SwissProt: Q3MHZ4](#) Cow

[SwissProt: O43294](#) Human

[SwissProt: Q9BPW3](#) Human

[SwissProt: Q3YBY7](#) Mouse

[SwissProt: Q3YBY8](#) Mouse

[SwissProt: Q3YBZ0](#) Mouse

[SwissProt: Q3YBZ1](#) Mouse

[SwissProt: Q3YBZ3](#) Mouse

[SwissProt: Q3YBZ4](#) Mouse

[SwissProt: Q3YBZ5](#) Mouse

[SwissProt: Q3YBZ6](#) Mouse

[SwissProt: Q62219](#) Mouse

[SwissProt: Q99PD6](#) Rat

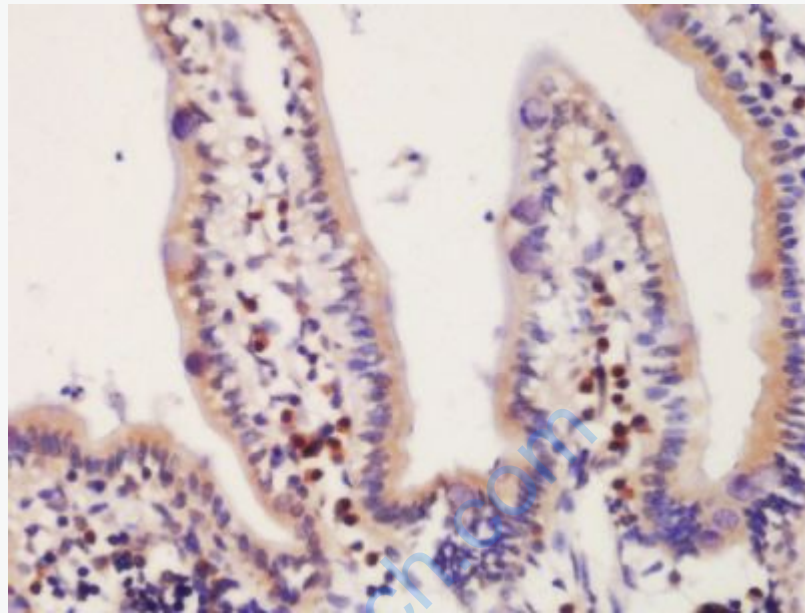
[Unigene: 513530](#) Human

[Unigene: 3248](#) Mouse

[Unigene: 103260](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Tissue/cell: mouse intestine tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-HIC5 Polyclonal Antibody, Unconjugated(SL12436R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining