

Rabbit Hic-5 Polyclonal Antibody | anti-Hic-5 antibody

Phospho-Hic-5 (Tyr60) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329659	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Hic-5; Polyclonal Antibody; Phospho-Hic-5 (Tyr60) Antibody; Androgen receptor coactivator 55kDa protein; Androgen receptor coactivator ARA55; Androgen receptor-associated protein of 55kDa; ARA55; 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; anti-Hic-5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Hic-5 (Tyr60) Antibody detects endogenous levels of Hic-5 only when phosphorylated at Tyr60. Tissue Specificity: Expressed in platelets, smooth muscle and prostate stromal cells (at protein level).
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-Hic-5 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Hic-5 around the phosphorylation site of Tyr60.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Phosphorylated by gonadotropin-releasing hormone-activated SRC.
Subunit Structure	Homooligomer. Interacts with CRIP2, HSPB1, ILK, LIMS1, LIMS2, NCK2, NUDT16L1, PAK, PPARG, PTPN12, TCF3, TCF7L2 and VCL. Forms a complex with GIT1 and ARHGEF7. 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. Interacts (via LIM zinc-binding domain 2) with CBLC (via RING-type zinc finger); the interaction is direct and enhances CBLC E3 ubiquitin-protein ligase activity.
Similarity	The LIM zinc-binding domains mediate glucocorticoid receptor coactivation and interaction with AR, CRIP2, ILK, LIMS1, NR3C1, PPARG, TCF3, TCF7L2, SLC6A3 and SMAD3. The LIM zinc-binding 2 and LIM zinc-binding 3 domains mediate targeting to focal adhesions and actin stress fibers. The LIM zinc-binding 3 and LIM zinc-binding 4 domains mediate interaction with TRAF4 and MAPK15. The LIM zinc-binding 4 domain mediates interaction with HSPB1, homooligomerization and targeting to the nuclear matrix. The LIM zinc-binding 3 domain mediates interaction with PTPN12. The LD (leucine and aspartate-rich) motif 3 mediates interaction with GIT1 and functions as a nuclear export signal. Belongs to the paxillin family.

Subcellular Location	Cell junction>Focal adhesion. Nucleus matrix. Cytoplasm>Cytoskeleton. Note: Associated with the actin cytoskeleton; colocalizes with stress fibers.
Preparation and Storage	Store at -20°C.

IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Human breast tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemisry)
At 1/200 staining Mouse liver tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohiostchemistry)
Staining Rat kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of Hic-5 (Phospho-Tyr60) using nocodazole treated HeLa whole cell lysates. -/+ means absence or presence of N peptide(¼ non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-Hic-5 antibody	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 TGFB 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	119572515
NCBI GeneID	7041
UniProt Accession #	O43294; Q9BPW3; Q9Y2V5; B2R8D5
Molecular Weight	50 kDa
NCBI Official Full Name	transforming growth factor beta 1 induced transcript 1, isoform CRA_a
NCBI Official Synonym Full Names	transforming growth factor beta 1 induced transcript 1
NCBI Official Symbol	TGFB111
NCBI Official Synonym Symbols	HIC5; ARA55; HIC-5; TSC-5
NCBI Protein Information	transforming growth factor beta-1-induced transcript 1 protein; androgen receptor coactivator ARA55; hydrogen peroxide-inducible clone 5 protein; androgen receptor coactivator 55 kDa protein; androgen receptor-associated protein of 55 kDa
UniProt Protein Name	Transforming growth factor beta-1-induced transcript 1 protein
UniProt Gene Name	TGFB111
UniProt Synonym Gene Names	ARA55; Hic-5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hic-5-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329659>