

Rabbit HCFC1 Polyclonal Antibody | anti-HCFC1 antibody

HCFC1 Antibody

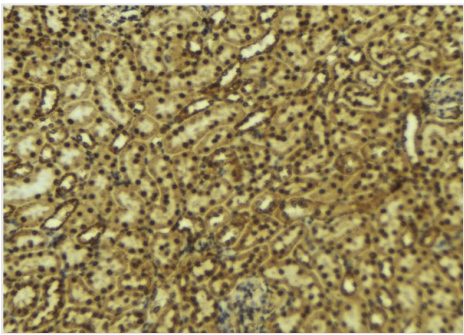
CATALOG # AAA326416	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

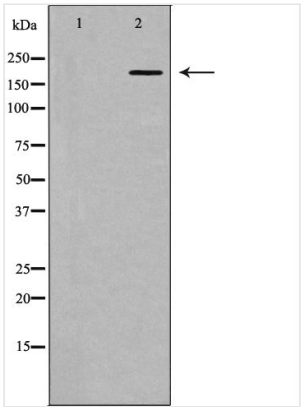
HCFC1; Polyclonal Antibody; HCFC1 Antibody; C1 factor; CFF; HCF 1; HCF; HCF C-terminal chain 6; HCF-1; HCF1; Hcf1; HCFC1_HUMAN; HFC1; Host cell factor 1; Host cell factor; Host cell factor C1 (VP16 accessory protein); Host cell factor C1; MGC70925; MRX3; VCAF; VP16 accessory protein; anti-HCFC1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	HCFC1 antibody detects endogenous levels of total HCFC1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2035
Applicable Applications for anti-HCFC1 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HCFC1
Subcellular Location	Cytoplasm. Nucleus. HCFC1R1 modulates its subcellular localization and overexpression of HCFC1R1 leads to accumulation of HCFC1 in the cytoplasm. Nuclear in general, but uniquely cytoplasmic in trigeminal ganglia, becoming nuclear upon HSV reactivation from the latent state.
Tissue Specificity	Highly expressed in fetal tissues and the adult kidney. Present in all tissues tested.
Predicted Cross Reactivity	Pig, Bovine, Horse, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohiostchemistry)
AAA326416 at 1/100 staining Mouse kidney tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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.



WB (Western Blot)
Western blot analysis of extracts of HEK-293, using HCFC1 antibody. The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-HCFC1 antibody	Description: This gene is a member of the host cell factor family and encodes a protein with five Kelch repeats, a fibronectin-like motif, and six HCF repeats, each of which contains a highly specific cleavage signal. This nuclear coactivator is proteolytically cleaved at one of the six possible sites, resulting in the creation of an N-terminal chain and the corresponding C-terminal chain. The final form of this protein consists of noncovalently bound N-and C-terminal chains. The protein is involved in control of the cell cycle and transcriptional regulation during herpes simplex virus infection. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008] Function: Involved in control of the cell cycle (PubMed:10629049, PubMed:10779346, PubMed:15190068, PubMed:16624878, PubMed:23629655). Also antagonizes transactivation by ZBTB17 and GABP2; represses ZBTB17 activation of the p15(INK4b) promoter and inhibits its ability to recruit p300 (PubMed:10675337, PubMed:12244100). Coactivator for EGR2 and GABP2 (PubMed:12244100, PubMed:14532282). Tethers the chromatin modifying Set1/Ash2 histone H3 'Lys-4' methyltransferase (H3K4me) and Sin3 histone deacetylase (HDAC) complexes (involved in the activation and repression of transcription, respectively) together (PubMed:12670868). Component of a THAP1/THAP3-HCFC1-OGT complex that is required for the regulation of the transcriptional activity of RRM1 (PubMed:20200153). As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues (PubMed:20018852). Recruits KMT2E/MLL5 to E2F1 responsive promoters promoting transcriptional activation and thereby facilitates G1 to S phase transition (PubMed:23629655). Subunit Structure: Composed predominantly of six polypeptides ranging from 110 to 150 kDa and a minor 300 kDa polypeptide (PubMed:10920196). The majority of N-and C-terminal cleavage products remain tightly, albeit non-covalently, associated (PubMed:10920196). Interacts with POU2F1, CREB3, ZBTB17, EGR2, E2F4, CREBZF, SP1, GABP2, Sin3 HDAC complex (SIN3A, HDAC1, HDAC2, SUDS3), SAP30, SIN3B and FHL2 (PubMed:9271389, PubMed:9389645, PubMed:10675337, PubMed:10976766, PubMed:10629049, PubMed:10871379, PubMed:10984507, PubMed:12244100, PubMed:14532282, PubMed:12670868, PubMed:15705566, PubMed:16624878). Component of a MLL1 complex, composed of at least the core components KMT2A/MLL1, ASH2L, HCFC1, WDR5 and RBBP5, as well as the facultative components BAP18, CHD8, DPY30, E2F6, HCFC2, HSP70, INO80C, KANSL1, LAS1L, MAX, MCRC1, MEN1, MGA, KAT8, PELP1, PHF20, PRP31, RING2, RUVBL1, RUVBL2, SENP3, TAF1, TAF4, TAF6, TAF7, TAF9 and TEX10 (PubMed:15199122, PubMed:15960975). Component of a THAP1/THAP3-HCFC1-OGT complex that is required for the regulation of the transcriptional activity of RRM1 (PubMed:20200153). Interacts directly with THAP3 (via its HBM) (PubMed:20200153). Interacts (via the Kelch-repeat domain) with THAP1 (via the HBM); the interaction recruits HCHC1 to the RRM1 (PubMed:20200153). Interacts directly with OGT; the interaction, which requires the HCFC1 cleavage site domain, glycosylates and promotes the proteolytic processing of HCFC1, retains OGT in the nucleus and impacts the expression of herpes simplex virus immediate early viral genes (PubMed:12670868, PubMed:21285374, PubMed:23353889). Component of the SET1 complex, at least composed of the catalytic subunit (SETD1A or SETD1B), WDR5, WDR82, RBBP5, ASH2L, CXXC1, HCFC1 and DPY30 (PubMed:17998332, PubMed:18838538). Component of the NSL complex at least composed of MOF/KAT8, KANSL1, KANSL2, KANSL3, MCRC1, PHF20, OGT1/OGT, WDR5 and HCFC1 (PubMed:20018852). Part of a complex composed at least of ASCL2, EMSY, HCFC1, HSPA8, CCAR2, MATR3, MKI67, RBBP5, TUBB2A, WDR5 and ZNF335; this complex may have a histone H3-specific methyltransferase activity (PubMed:19131338). Interacts with TET2 and TET3 (PubMed:23353889). Interacts with HCFC1R1 (PubMed:12235138). Interacts with THAP11 (By similarity). Interacts (via Kelch domain) with KMT2E/MLL5 isoform 3 (via HBM motif) (PubMed:23629655). Interacts with E2F1 (PubMed:23629655). Post-translational Modifications: Proteolytically cleaved at one or several PPCE--THET sites within the HCF repeats. Further cleavage of the primary N-and C-terminal chains results in a 'trimming' and accumulation of the smaller chains. Cleavage is promoted by O-glycosylation. O-glycosylated. GlcNAcylation by OGT promotes proteolytic processing. Ubiquitinated. Lys-1807 and Lys-1808 are ubiquitinated both via 'Lys-48'-and 'Lys-63'-linked polyubiquitin chains. BAP1 mediated deubiquitination of 'Lys-48'-linked polyubiquitin chains; deubiquitination by BAP1 does not seem to stabilize the protein. Similarity: The HCF repeat is a highly specific proteolytic cleavage signal.The kelch repeats fold into a 6-bladed kelch beta-propeller called the beta-propeller domain which mediates interaction with HCFC1R1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	98986457
NCBI GeneID	3054
NCBI Accession #	NP_005325.2
NCBI GenBank Nucleotide #	NM_005334.2

UniProt Accession #	P51610; Q6P4G5
Molecular Weight	Observed: 209 kDa Predicted: 209 kDa
NCBI Official Full Name	host cell factor 1
NCBI Official Synonym Full Names	host cell factor C1
NCBI Official Symbol	HCFC1
NCBI Official Synonym Symbols	CFF; HCF; HCF1; HFC1; MRX3; VCAF; HCF-1; PPP1R89
NCBI Protein Information	host cell factor 1
UniProt Protein Name	Host cell factor 1
UniProt Gene Name	HCFC1
UniProt Synonym Gene Names	HCF1; HFC1; HCF; HCF-1

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/hcfc1-antibody-immunohistochemistry-western-blot-elisa/326416>