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HCF1 / HCFC1 Antibody (aa131-180)

Rabbit Polyclonal Antibody
Catalog # ALS15106

Specification

HCF1 / HCFC1 Antibody (aa131-180) - Product Information

Application	**IHC**
Primary Accession	P51610
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**209kDa KDa**

HCF1 / HCFC1 Antibody (aa131-180) - Additional Information

Gene ID 3054

Other Names
Host cell factor 1, HCF, HCF-1, C1 factor, CFF, VCAF, VP16 accessory protein, HCF N-terminal chain 1, HCF N-terminal chain 2, HCF N-terminal chain 3, HCF N-terminal chain 4, HCF N-terminal chain 5, HCF N-terminal chain 6, HCF C-terminal chain 1, HCF C-terminal chain 2, HCF C-terminal chain 3, HCF C-terminal chain 4, HCF C-terminal chain 5, HCF C-terminal chain 6, HCFC1, HCF1, HFC1

Target/Specificity
HCFC1 Antibody detects endogenous levels of total HCFC1 protein.

Reconstitution & Storage
Store at -20°C for up to one year.

Precautions
HCF1 / HCFC1 Antibody (aa131-180) is for research use only and not for use in diagnostic or therapeutic procedures.

HCF1 / HCFC1 Antibody (aa131-180) - Protein Information

Name HCFC1 {ECO:0000303|PubMed:7829097, ECO:0000312|HGNC:HGNC:4839}

Function
Transcriptional coregulator (By similarity). 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). Modulates expression of homeobox protein PDX1, perhaps acting in concert with transcription factor E2F1, thereby regulating pancreatic beta-cell growth and glucose-stimulated insulin secretion (By similarity). May negatively modulate transcriptional activity of FOXO3 (By similarity).

Cellular Location
Cytoplasm. Nucleus. Note=HCFC1R1 modulates its subcellular localization and overexpression of HCFC1R1 leads to accumulation of HCFC1 in the cytoplasm (PubMed:12235138). Non- processed HCFC1 associates with chromatin. Colocalizes with CREB3 and CANX in the ER.

Tissue Location
Highly expressed in fetal tissues and the adult kidney. Present in all tissues tested.

Volume
50 µl

HCF1 / HCFC1 Antibody (aa131-180) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

HCF1 / HCFC1 Antibody (aa131-180) - Images

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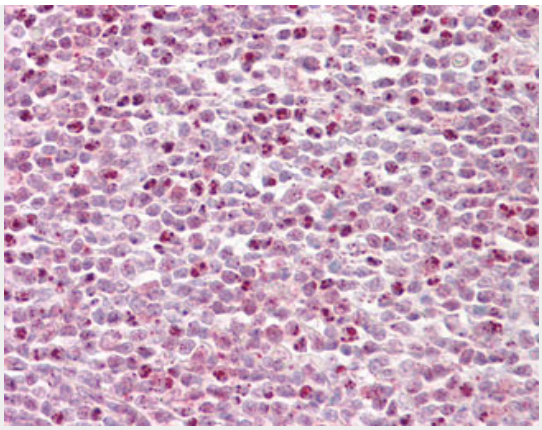

Anti-HCFC1 / HCF-1 antibody IHC of human tonsil.

HCF1 / HCFC1 Antibody (aa131-180) - Background

Involved in control of the cell cycle. Also antagonizes transactivation by ZBTB17 and GABP2; represses ZBTB17 activation of the p15(INK4b) promoter and inhibits its ability to recruit p300. Coactivator for EGR2 and GABP2. 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. Component of a THAP1/THAP3-HCFC1-OGT complex that is required for the regulation of the transcriptional activity of RRM1. As part of the NSL complex it may be involved in acetylation of nucleosomal histone H4 on several lysine residues. In case of human herpes simplex virus (HSV) infection, HCFC1 forms a multiprotein-DNA complex with the viral transactivator protein VP16 and POU2F1 thereby enabling the transcription of the viral immediate early genes.

HCF1 / HCFC1 Antibody (aa131-180) - References

Wilson A.C.,et al.Cell 74:115-125(1993).
Kristie T.M.,et al.J. Biol. Chem. 270:4387-4394(1995).
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Frattini A.,et al.Genomics 23:30-35(1994).
Vogel J.L.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:9425-9430(2000).