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CCDC134 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13242b

Product Information

Application	WB, IHC-P, E
Primary Accession	Q9H6E4
Other Accession	Q5M862, NP_079097.1
Reactivity	Human
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33111
Calculated MW	26561
Antigen Region	197-225

Additional Information

Gene ID	79879
Other Names	Coiled-coil domain-containing protein 134, CCDC134
Target/Specificity	This CCDC134 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 197-225 amino acids from the C-terminal region of human CCDC134.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	CCDC134 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CCDC134 {ECO:0000303|PubMed:39509507, ECO:0000312|HGNC:HGNC:26185}
Function	Molecular adapter required to prevent protein hyperglycosylation of HSP90B1: during translation, associates with nascent HSP90B1 and the STT3A

	catalytic component of the OST-A complex and tethers them to a specialized translocon that forms a microenvironment for HSP90B1 folding (PubMed:38670073, PubMed:39509507). In the CCDC134-containing translocon, STT3A associates with the SRT pseudosubstrate motif of HSP90B1, preventing access to facultative glycosylation sites until folding is completed, preventing hyperglycosylation and subsequent degradation of HSP90B1 (PubMed:39509507). In extracellular secreted form, promotes proliferation and activation of CD8(+) T-cells, suggesting a cytokine- like function (PubMed:25125657). May inhibit ERK and JNK signaling activity (PubMed:18087676, PubMed:23070808). May suppress cell migration and invasion activity, via its effects on ERK and JNK signaling (PubMed:23070808). May also localize in the nucleus: enhances stability of the PCAF histone acetyltransferase (HAT) complex member TADA2A and thus promotes PCAF-mediated histone acetyltransferase activity (PubMed:22644376). Has a critical role in the regulation of osteogenesis and bone development (PubMed:32181939).
Cellular Location	Endoplasmic reticulum lumen. Secreted. Cytoplasm Nucleus. Note=Mainly localizes to the endoplasmic reticulum (PubMed:39509507). Accumulates in the nucleus in response to UV irradiation (PubMed:22644376)
Tissue Location	Expressed in cervical gland, cervical squamous epithelium, endometrium, stomach, kidney distal convoluted tubule, spermatogenic cells in testis, mammary gland, liver and striated muscle (at protein level) (PubMed:18087676, PubMed:23070808). Also detected in placenta (PubMed:18087676). Highest expression in testis relative to other tissues (PubMed:18087676). Detected in T cells and dendritic cells; highly expressed in activated CD8(+) T cells, and also expressed at lower levels in CD4(+) T cells (PubMed:25125657)

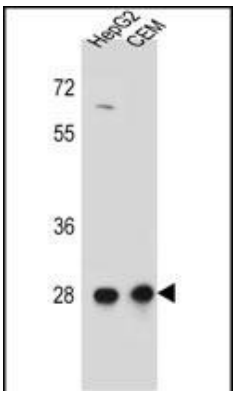
Background

The specific function of this protein remains unknown.

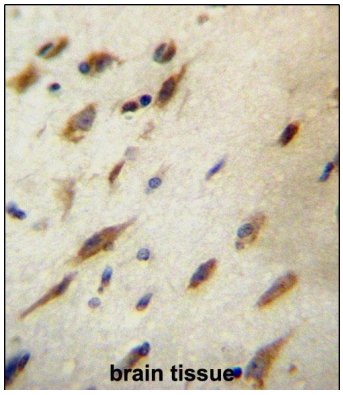
References

Huang, J., et al. Cell. Mol. Life Sci. 65(2):338-349(2008)
Lim, J., et al. Cell 125(4):801-814(2006)
Collins, J.E., et al. Genome Biol. 5 (10), R84 (2004) :
Dunham, I., et al. Nature 402(6761):489-495(1999)

Images



CCDC134 Antibody (C-term) (Cat. #AP13242b) western blot analysis in HepG2,CEM cell line lysates (35ug/lane).This demonstrates the CCDC134 antibody detected the CCDC134 protein (arrow).



CCDC134 Antibody (C-term) (Cat. #AP13242b)immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of CCDC134 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.