

CCDC134 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP13242b

Specification

CCDC134 Antibody (C-term) - Product Information

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

CCDC134 Antibody (C-term) - 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 IHC-P~~1:10~50 WB~~1:1000 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.

CCDC134 Antibody (C-term) - 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:<u>38670073</u>, PubMed:<u>39509507</u>). 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:<u>39509507</u>). In extracellular secreted form, promotes proliferation and activation of CD8(+) T-cells, suggesting a cytokine- like function (PubMed:<u>25125657</u>). May inhibit ERK and JNK signaling activity (PubMed:<u>18087676</u>, PubMed:<u>23070808</u>). 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:<u>22644376</u>). Has a critical role in the regulation of osteogenesis and bone development (PubMed:<u>32181939</u>).

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)

CCDC134 Antibody (C-term) - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

CCDC134 Antibody (C-term) - 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.

CCDC134 Antibody (C-term) - Background

The specific function of this protein remains unknown.

CCDC134 Antibody (C-term) - 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)