

# CCDC134 Antibody

Catalog # ASC10944

## Product Information

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<b>Application</b>	WB, IF, E, IHC-P
<b>Primary Accession</b>	<a href="#">Q9H6E4</a>
<b>Other Accession</b>	<a href="#">NP_079097</a> , <a href="#">13376216</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG
<b>Calculated MW</b>	26561
<b>Concentration (mg/ml)</b>	1 mg/mL
<b>Conjugate</b>	Unconjugated
<b>Application Notes</b>	CCDC134 antibody can be used for detection of CCDC134 by Western blot at 1 - 2 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 20 µg/mL.

## Additional Information

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<b>Gene ID</b>	79879
<b>Other Names</b>	Coiled-coil domain-containing protein 134, CCDC134
<b>Target/Specificity</b>	CCDC134;
<b>Reconstitution &amp; Storage</b>	CCDC134 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
<b>Precautions</b>	CCDC134 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	CCDC134 {ECO:0000303 PubMed:39509507, ECO:0000312 HGNC:HGNC:26185}
<b>Function</b>	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: <a href="#">38670073</a> , PubMed: <a href="#">39509507</a> ). 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: <a href="#">39509507</a> ). 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)

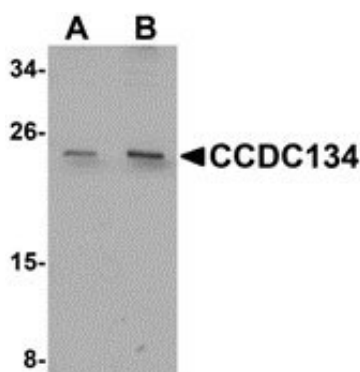
## Background

CCDC134 Antibody: The coiled-coil domain is a common protein motif that is often involved in protein oligomerization and is found in proteins such as transcription factors and intermediate filaments. One such protein is CCDC134, a recently identified secretory protein that has been found to inhibit the transcriptional activity of the Elk1 protein. Overexpression CCDC134 also inhibited the phosphorylation of Erk and JNK/SAPK but not p38 MAPK, while specific siRNA against CCDC134 activated Elk1 transcriptional activity and the phosphorylation of Erk and JNK/SAPK, suggesting a potential inhibiting role of CCDC134 in MAPK-mediated Elk1 transcription. CCDC134 is widely expressing in normal adult tissues, tumors, and cell lines.

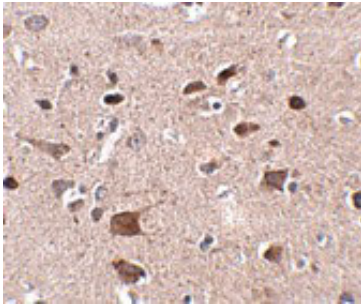
## References

Steinmetz MO, Jelesarov I, Matousek WM, et al. Molecular basis of coiled-coil formation. Proc. Natl. Acad. Sci. USA 2007; 104:7062-7.  
Huang J, Shi T, Ma T, et al. CCDC134, a novel secretory protein, inhibits activation of ERK and JNK, but not p38 MAPK. Cell. Mol. Life Sci. 2008; 65:338-49.

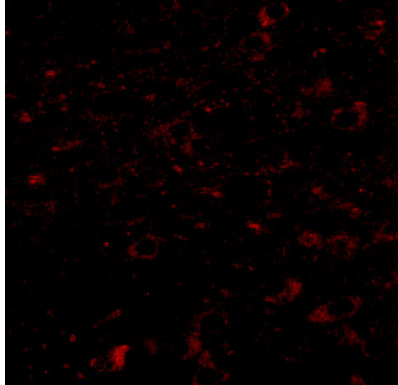
## Images



Western blot analysis of CCDC134 in rat brain tissue lysate with CCDC134 antibody at (A) 1 and (B) 2 µg/mL.



Immunohistochemistry of CCDC134 in human brain tissue with CCDC134 antibody at 2.5 µg/mL.



Immunofluorescence of CDCC134 in human brain tissue with CDCC134 antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.