

# CCNJ Polyclonal antibody

Catalog Number: 15694-1-AP

## Basic Information

<b>Catalog Number:</b> 15694-1-AP	<b>GenBank Accession Number:</b> BC043175	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 400 µg/ml	<b>GeneID (NCBI):</b> 54619	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IHC 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q5T5M9	
<b>Isotype:</b> IgG	<b>Full Name:</b> cyclin J	
<b>Immunogen Catalog Number:</b> AG8273	<b>Calculated MW:</b> 43 kDa <b>Observed MW:</b> 43 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : mouse kidney tissue, rat kidney tissue IHC : rat kidney tissue,
<b>Species Specificity:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

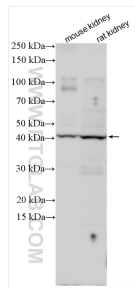
## Background Information

CCNJ (Cyclin-J) Belongs to the Cyclin family. Cyclin J is expressed in early Drosophila embryos, and it is essential for mediating intestinal epithelial cell recovery from bacterial pore-forming toxin attack in both Drosophila and mice. Upon TLR and IFN stimulation, cyclin J restrained macrophage inflammatory responses irrespective of the cell cycle control. Cyclin J interacted with CDKs and facilitated the phosphorylation of a set of CDK substrates, including FoxK1 and Drp1. Phosphorylation inhibited FoxK1-mediated expression of glycolytic genes by reducing FoxK1 nuclear localization. Cyclin J-CDK-dependent Drp1 phosphorylation also resulted in mitochondrial fission and the suppression of ROS production (PMID: 35412849).

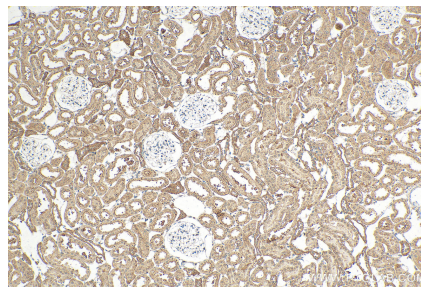
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 15694-1-AP (CCNJ antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 15694-1-AP (CCNJ antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).