

# CCDC6 Monoclonal antibody

Catalog Number: 67637-1-Ig

## Basic Information

**Catalog Number:**

67637-1-Ig

**Size:**

900 µg/ml

**Source:**

Mouse

**Isotype:**

IgG1

**Immunogen Catalog Number:**

AG6952

**GenBank Accession Number:**

BC036757

**GeneID (NCBI):**

8030

**UNIPROT ID:**

Q16204

**Full Name:**

coiled-coil domain containing 6

**Calculated MW:**

474 aa, 53 kDa

**Observed MW:**

65 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1D6A8

**Recommended Dilutions:**

WB 1:5000-1:50000

IF/ICC 1:200-1:800

## Applications

**Tested Applications:**

IF/ICC, WB, ELISA

**Species Specificity:**

Human, mouse, rat

**Positive Controls:**

WB : MCF-7 cells, A549 cells, U2OS cells, LNCaP cells, HeLa cells, HepG2 cells, K-562 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells

IF/ICC : MCF-7 cells,

## Background Information

CCDC6 (Coiled-coil domain-containing protein 6) is also named as Protein H4, D10S170 and TST1. CCDC6, was initially isolated as part of a tumorigenic DNA originated by the fusion of CCDC6 with the tyrosine kinase of RET receptor. CCDC6 has been considered as an accidental partner of the RET protooncogene, providing the promoter and the first 101 aa necessary for the constitutive activation of the oncogenic Tyrosine Kinase (TK) RET in thyroid cells. The 65 kDa product of CCDC6 has a nuclear transfer sequence with no transmembrane domains and is predicted to locate in both the nucleus and the cytoplasm (PMID: 29044514). The CCDC6 is a phosphoprotein, predicted target of several S/T kinases which can modulate the protein stability and the intracellular shuttling into the nucleus upon different cellular signals mediated by ERK1/2, ATM and CDK1/2. CCDC6 is involved in cellular response to DNA damage mediated by ATM, with the final result of promoting cellular apoptosis. CCDC6 depleted cells are considered defective of DNA repair checkpoint and proceed faster than the control cells in the cell cycle upon induced DNA damage (PMID: 22655027).

## 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

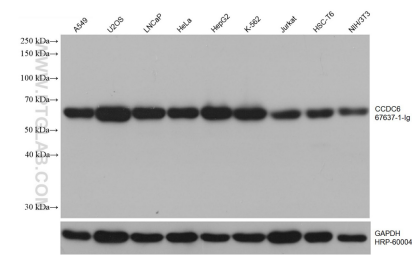
For technical support and original validation data for this product please contact:

T: 4006900926

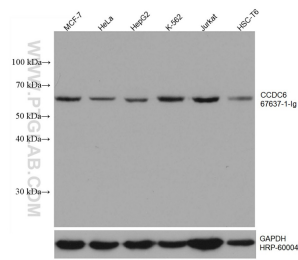
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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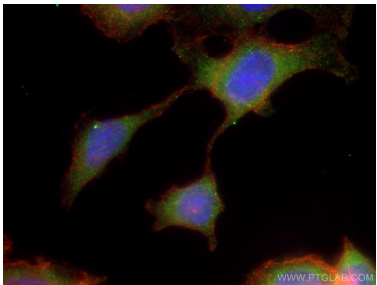
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67637-1-Ig (CCDC6 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated GAPDH Monoclonal antibody (HRP-60004) as loading control.



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Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using CCDC6 antibody (67637-1-Ig, Clone: 1D6A8 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).