antibodies

Datasheet for ABIN872760 anti-CCDC42 antibody (AA 221-312)

2 Validations

Image



Overview

Quantity:	100 µL	
Target:	CCDC42	
Binding Specificity:	AA 221-312	
Reactivity:	Mouse, Rat	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This CCDC42 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))	

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CCDC42
Isotype:	lgG
Cross-Reactivity:	Mouse, Rat
Predicted Reactivity:	Human,Dog,Cow,Sheep,Pig,Horse,Rabbit
Purification:	Purified by Protein A.
Torget Details	
Target Details	
Target:	CCDC42

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Target Details	
Alternative Name:	CCDC42 (CCDC42 Products)
Background:	Synonyms: CCDC42A, Coiled coil domain containing 42, Coiled coil domain containing protein
	42A, FLJ32734, OTTMUSP0000006142, RGD1565925, RP23-40005.1, CCD42_HUMAN.
	Background: The coiled-coil domain is a structural motif found in proteins that are involved in a
	diverse array of biological functions such as the regulation of gene expression, cell division,
	membrane fusion and drug extrusion and delivery. CCDC42 (coiled-coil domain containing 42)
	is a 316 amino acid protein encoded by a gene that maps to human chromosome 17p13.1.
	Encoding over 1,200 genes, chromosome 17 comprises over 2.5 % of the human genome. Two
	key tumor suppressor genes are associated with chromosome 17, namely, p53 and BRCA1.
	Tumor suppressor p53 is necessary for maintenance of cellular genetic integrity by moderating
	cell fate through DNA repair versus cell death. Malfunction or loss of p53 expression is
	associated with malignant cell growth and Li-Fraumeni syndrome.
Gene ID:	146849
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000

IHC-P 1:200-400

IHC-F 1:100-500

IF(ICC) 1:50-200

For Research Use only

IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200

Handling

Restrictions:

Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C

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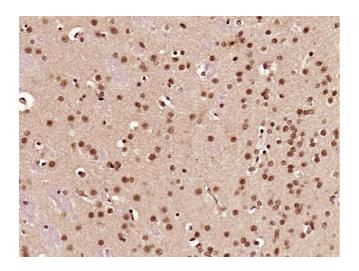
Storage Comment:

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date:

12 months

Validation report #103397 for Western Blotting (WB)

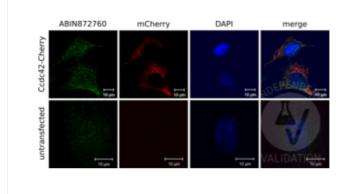


Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Paraformaldehyde-fixed, paraffin embedded rat brain; Antigen retrieval by boiling in sodium citrate buffer (pH6) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 30 minutes; Blocking buffer (normal goat serum) at 37°C for 20min; Antibody incubation with CCDC42 Polyclonal Antibody, Unconjugated (bs-8131R) at 1:200 overnight at 4°C, followed by a conjugated secondary and DAB staining.



NDEPENDEN	Successfully validated (Immunocytochemistry (ICC))	
Д	by Developmental Biology, Johann-Friedrich-Blumenbach-Institute for Zoology and	
	Anthropology, Georg-August-University of Göttingen	
VALIDATION	Report Number: 103396	
CUSTOMER VALIDATION DATE 103396 12/10/18	Date: Oct 12 2018	
arget:	CCDC42	
ot Number:	AH09037940	
Method validated:	Immunocytochemistry (ICC)	
Positive Control:	NIH/3T3 cells transfected with Ccdc42-mCherry expression vector	
Negative Control:	NIH/3T3 cell lysates	
Notes:	ABIN872760 specifically detects exogenously expressed Ccdc42-Cherry but shows also	
	unspecific background staining.	
Primary Antibody:	ABIN872760	
Secondary Antibody:	goat anti-rabbit 488 (MoBiotec MFP-A1008, lot 2806F058)	
Protocol:	 Grow NIH/3T3 cells (ATCC, CRL-1658) in DMEM+GlutaMAX (Gibco, 10567-014, lot 1922818 supplemented with fetal bovine serum (Gibco, 10500-064, lot 08F0477K) and Pen/Strep 	
	(Gibco 15140-122, lot 1924797), at 37°C and 5% CO ₂ to 70% confluency.	
	Transfect cells with mCherry-tagged Ccdc42 (Ccdc42-Cherry) expression vector using	
	EndofectinMax (GeneCopoeia) following the manufacturer's instructions.	
	 Grow cells for 24h. Fix cells in methanol for 10min at -20°C followed by incubation in 0.3% Triton X-100 for 10min at 4°C. 	
	 Block cells in PBS containing 1% bovine serum albumin and 0.5% Tween-20 (PBT) for 1h at RT. 	
	Incubate cells with primary rabbit anti-CCDC42 antibody (antibodies-online, ABIN872760, lo	
	AH09037940) diluted 1:100 in PBS for 1h at 37°C.	
	Wash cells 3x 5min with 1x PBS.	
	 Incubate cells with secondary goat anti-rabbit 488 antibody (MoBiotec MFP-A1008, lot 2806F058) diluted 1:300 in PBS for 1h at 37°C. 	
	• DNA counterstained with DAPI (4',6-Diamidino-2-phenylindole; Sigma D-9542).	
	 Image acquisition on Zeiss LSM 510 confocal microscope and processing using Adobe Photoshop 5.0. 	



Validation image no. 1 for anti-Coiled-Coil Domain Containing 42 (CCDC42) (AA 221-312) antibody (ABIN872760)

Immunocytochemistry detection of NIH/3T3 cells expressing mCherry-labeled Ccdc42 (Ccdc42-Cherry) using ABIN872760 (green) or an mCherry antibody (red). Untransfected NIH/3T3 cells served as negative control. The pictures on the right show the red and green channels merged with DAPI counterstain (blue).

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NDEPENDEN	Successfully validated (Western Blotting (WB))	
Д	by Developmental Biology, Johann-Friedrich-Blumenbach-Institute for Zoology and	
	Anthropology, Georg-August-University of Göttingen	
VALIDATION	Report Number: 103397	
CUSTOMER VALIDATION N° DATE 103397 12/10/18	Date: Oct 12 2018	
Target:	CCDC42	
Lot Number:	AH09037940	
Method validated:	Western Blotting (WB)	
Positive Control:	Lysate from HEK293 cells transfected with mCherry tagged Ccdc42 expression vector	
Negative Control:	Lysate from untransfected HEK293 cells	
Notes:	Passed. ABIN872760 specifically detects Ccdc42 by immunoblotting.	
Primary Antibody:	ABIN872760	
Secondary Antibody:	goat anti-rabbit IgG (H+L), HRP-conjugated (Jackson Immuno Research, 111-035-003, lot	
	123450)	
Protocol:	 Grow HEK293 (ATCC) cells in DMEM+GlutaMAX (Gibco, 10567-014, lot 1922818) supplemented with fetal bovine serum (Gibco, 10500-064, lot 08F0477K) and Pen/Strep 	
	(Gibco, 15140-122, lot 1924797), at 37° C and 5% CO ₂ to 70% confluency.	
	Transfect cells with mCherry tagged Ccdc42 (Ccdc42-Cherry) expression vector using	
	EndofectinMax (GeneCopoeia) following the manufacturer's instructions. • Grow cells for 24h.	
	 Grow cells for 24h. Lyse cells in SDS-sample buffer and denature total cellular lysates for 5min at 95°C. 	
	 Separate up to 40µl of protein lysate on a denaturing 10% SDS polyacrylamide gel (Laemmli (1970)). 	
	 Transfer proteins onto 0.2µm Protran membrane (GE Healthcare, 10600004, A10043108) 	
	with a Western blotting system for 1h at 400A (Towbin et al. (1979)).	
	Block the membrane in TBST (50mM Tris-HCl pH7.4, 150mM NaCl, 0.2% Tween 20)	
	containing 5% dry milk (blocking solution) for 1h at RT.	
	Incubate membrane with primary	
	 rabbit anti-Ccdc42 antibody (antibodies-online, ABIN872760, lot AH09037940) diluted 1:500 in blocking solution ON at 4°C or 	
	 rat anti-RFP antibody (antibodies-online, ABIN334653, lot 090428) diluted 1:500 in blocking solution ON at 4°C. 	
	Wash membrane for 6x 5min with TBST at RT.	
	Incubate membrane with secondary	
	 goat anti-rabbit IgG (H+L), HRP-conjugated antibody (Jackson Immuno Research, 111- 	

035-003, lot 123450)) diluted 1:2000 in blocking	solution for 45min at RT or
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o rabbit anti-rat IgG-HRPconjugated antibody (Jackson ImmunoResearch Lab. Inc., 312-035-003, lot 34336) diluted 1:2000 in blocking solution for 45min at RT.

1 for

(B).

(AA)

(CCDC42)

anti-Coiled-Coil Domain

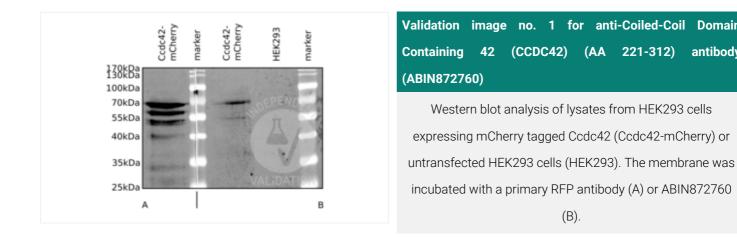
antibody

221-312)

- Wash membranes for 45 min at RT with TBST.
- Reveal protein bands using Clarity Max Western ECL substrate (Bio-Rad, 1705062) and capture images via Chemidoc Imaging System (Bio-Rad).

Experimental Notes: Expected molecular mass of Ccdc42-tagged Cherry is approximately 68kDa. ABIN872760 detects a protein in the expected molecular mass range. The anti-RedFP antibody detects a protein with a similar mass in addition to proteins with lower molecular masses, which are most probably degradation products.

Image for Validation report #103397



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