

Rabbit ZC3H12A Polyclonal Antibody | anti-ZC3H12A antibody

ZC3H12A (CT) Antibody

CATALOG # AAA11042	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Western Blot, Immunofluorescence, Immunohistochemistry
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PRODUCT SYNONYMS

ZC3H12A; Polyclonal Antibody; ZC3H12A (CT) Antibody; ZC3H12A Antibody; Endoribonuclease ZC3H12A; Monocyte chemotactic protein-induced protein 1; MCP-induced protein 1; MCP-IP-1; Zinc finger CCCH domain-containing protein 12A; zinc finger CCCH-type containing 12A; anti-ZC3H12A antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	ZC3H12A Antibody is affinity chromatography purified via peptide column.
Form/Format	Liquid; ZC3H12A Antibody is supplied in PBS containing 0.02% sodium azide.
Concentration	1mg/mL (varies by lot)
Applicable Applications for anti-ZC3H12A antibody	ELISA, WB (Western Blot), IF (Immunofluorescence), IHC (Immunohistochemistry)
Application Notes	WB: 2ug mL; IF: 10ug mL; IHC: 1ug mL. Antibody validated: Western Blot in human, mouse and rat samples; Immunofluorescence in human samples; Immunohistochemistry in human, mouse and rat samples. All other applications and species not yet tested.
Immunogen	Anti-ZC3H12A antibody (9547) was raised against a peptide corresponding to 14 amino acids near the carboxyl terminus of human ZC3H12A. The immunogen is located within the last 50 amino acids of ZC3H12A.
Homology	Predicted species reactivity based on immunogen sequence: Chimpanzee (100%); Monkey (100%); Pig (79%); Chicken (83%)
Research Area	Innate Immunity
NCBI Organism	Homo sapiens
Isoforms	Human ZC3H12A has one isoform (599aa, 65.7kD). Mouse has one isoform (596aa, 65.6kD). Rat has one isoform (596aa, 65.9kD). can detect ZC3H12A in human, mouse, and rat.
Preparation and Storage	ZC3H12A antibody can be stored at 4 degree C for three months and -20 degree 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.



IHC (Immunohistochemistry)
Figure 7. Immunohistochemistry Validation of ZC3H12A in Rat BrainImmunohistochemical analysis of paraffin-embedded rat brain tissue using anti-ZC3H12A antibody (AAA11042) at 1ug/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 degree C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



IHC (Immunohistochemistry)
Figure 5. Immunohistochemistry Validation of ZC3H12A in Human TestisImmunohistochemical analysis of paraffin-embedded human testis tissue using anti-ZC3H12A antibody (AAA11042) at 1ug/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 degree C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



WB (Western Blot)
Figure 3. Western Blot Validation in Rat Tissues Loading: 15ug of lysates per lane. Antibodies: ZC3H12A AAA11042, 2ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



IHC (Immunohistochemistry)
Figure 6. Immunohistochemistry Validation of ZC3H12A in Mouse LiverImmunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-ZC3H12A antibody (AAA11042) at 1ug/mL. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4 degree C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin



IF (Immunofluorescence)
Figure 4. Immunofluorescence Validation of ZC3H12A in Human THP-1 CellsImmunofluorescent analysis of 4% paraformaldehyde-fixed THP-1 cells labeling ZC3H12A with AAA11042 at 10ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (green) and DAPI staining (blue).



WB (Western Blot)
Figure 2 Western Blot Validation in Mouse Tissues Loading: 15ug of lysates per lane. Antibodies: ZC3H12A AAA11042, 2ug/mL, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.

ADDITIONAL INFORMATION

Related Product Information for anti-ZC3H12A antibody	ZC3H12A Antibody: ZC3H12A is an MCP1 (CCL2; MIM 158105)-induced protein that acts as a transcriptional activator and causes cell death of cardiomyocytes, possibly via induction of genes associated with apoptosis. ZC3H12A inhibits the Wnt/beta-catenin signaling pathway activity and modulates epithelial-mesenchymal transition during clear cell renal cell carcinoma progression by targeting miRNAs. ZC3H12A ribonuclease can bind and cleave AURKA mRNA in MYCN-amplified neuroblastoma cells. ZC3H12A is a novel link between diabetogenic conditions and impaired insulin secretory capacity. ZC3H12A overexpression in human neuroblastoma cell lines causes cell-cycle arrest by G1/S checkpoint block.
Product Categories/Family for anti-ZC3H12A antibody	Primary Antibodies
References	Gorka et al. Oncogene. 2021; 40(50):6720-6735 Nowak et al. RNA Biol. 2021; 18(1):144-156 Tyka et al. Biochim Biophys Acta Mol Basis Dis. 2021; 1867(10):166199 Boratyn et al. J Cell Biochem. 2020; 121(5-6);3406-3425

NCBI AND UNIPROT INFORMATION

NCBI GI #	190485853
NCBI GeneID	80149
NCBI Accession #	NP_079355
NCBI GenBank Nucleotide #	NM_025079.2
UniProt Accession #	Q5D1E8; Q5D1E7

Molecular Weight	Predicted: 66 kDa
	Observed: 66 kDa
NCBI Official Full Name	ribonuclease ZC3H12A
NCBI Official Synonym Full Names	zinc finger CCCH-type containing 12A
NCBI Official Symbol	ZC3H12A
NCBI Official Synonym Symbols	MCPIP; MCPIP1; dJ423B22.1
NCBI Protein Information	ribonuclease ZC3H12A; MCP induced protein 1; MCP-induced protein 1; MCP-1 treatment-induced protein; zinc finger CCCH domain-containing protein 12A
UniProt Protein Name	Ribonuclease ZC3H12A
UniProt Gene Name	ZC3H12A
UniProt Entry Name	ZC12A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/zc3h12a-antibody-western-blot-immunofluorescence-immunohistochemistry-elisa/11042>