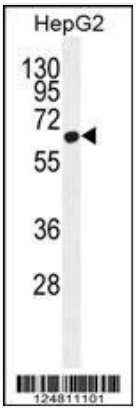
ZC12A Antibody – Rabbit Polyclonal

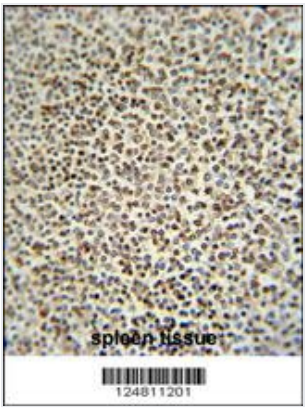
PRODUCT OVERVIEW

Product Name	ZC12A, Polyclonal Antibody
Full Product Name	ZC12A, ID (ZC3H12A, MCPIP, MCPIP1, Ribonuclease ZC3H12A, MCP-induced protein 1, Zinc finger CCCH domain-containing protein 12A) (PE)
Product Gene Name	anti-ZC12A antibody
Product Synonym Gene Name	ZC3H12A
Product Synonym Names	ZC3H12A; MCPIP; MCPIP1; Ribonuclease ZC3H12A; MCP-induced protein 1; Zinc finger CCCH domain-containing protein 12A
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
OMIM	610562
3D Structure	ModBase 3D Structure for Q5D1E8
Immunogen	ZC12A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 331-358 amino acids from the Central region of human ZC12A.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-ZC12A antibody	Antibodies; Transcription Factors; Zinc (Ring) Finger
Applications Tested/Suitable for anti-ZC12A antibody	Flow Cytometry (FC/FACS), FLISA, Immunohistochemistry (IHC), Western Blot (WB)
Application Notes for anti-ZC12A antibody	FC/FACS: 1:10-50 FLISA: 1:1,000 IHC: 1:50-100 WB: 1:100-500 Applications are based on unconjugated antibody.
Related Product Information for anti-ZC12A 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.
Product References and Citations for anti-ZC12A antibody	Skalniak, L., et al. FEBS J. 276(20):5892-5905(2009). Vrotsos, E.G., et al. Brain Res. Bull. 79(2):97-103(2009). Niu, J., et al. J. Biol. Chem. 283(21):14542-14551(2008). Liang, J., et al. J. Biol. Chem. 283(10):6337-6346(2008). Zhou, L., et al. Circ. Res. 98(9):1177-1185(2006).

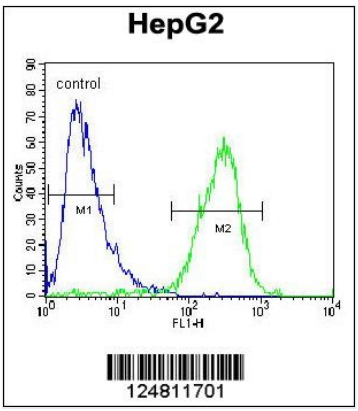
Other Notes	Small volumes of anti-ZC12A antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ZC12A purchase	MBS6364775 is an antibody targeting ZC12A. Also known as ZC12A, ID (ZC3H12A, MCPIP, MCPIP1, Ribonuclease ZC3H12A, MCP-induced protein 1, Zinc finger CCCH domain-containing protein 12A) (PE). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-ZC12A antibody
ZC12A Antibody (Center) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the ZC12A antibody detected the ZC12A protein (arrow).



Immunohistochemistry (IHC) of anti-ZC12A antibody
ZC12A antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human spleen tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ZC12A antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Flow Cytometry (FC/FACS) of anti-ZC12A antibody
ZC12A Antibody (Center) flow cytometric analysis of HepG2 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ZC12A. It may not necessarily be applicable to this product.

NCBI GI #	156151383
NCBI GeneID	80149
NCBI Accession #	NP_079355.2
UniProt Primary Accession #	Q5D1E8
UniProt Secondary Accession #	Q6I9Z1; Q9H5P1; D3DPT0
UniProt Related Accession #	Q5D1E8
GenBank Nucleotide #	NM_025079.2
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
UniProt Protein Name	Ribonuclease ZC3H12A
UniProt Synonym Protein Names	MCP-induced protein 1; Zinc finger CCCH domain-containing protein 12A
UniProt Gene Name	ZC3H12A
UniProt Entry Name	ZC12A_HUMAN
NCBI Protein Information	ribonuclease ZC3H12A
UniProt Comments for ZC12A	MCPIP1: Has RNase activity and selectively degrades specific target mRNA species. Modulates the immune response and inflammation by regulating the decay of specific mRNA molecules. Recognizes the 3'-untranslated region (UTR) of the mRNA for IL6, CALCR and IL12B. Required for normal decay of IL6 mRNA. Triggers apoptosis and promotes angiogenesis in response to the binding of CCL2 to CCR2. Regulates expression of CDH12 and CHD19. Belongs to the ZC3H12 family. Protein type: Hydrolase; EC 3.1.-.- Chromosomal Location of Human Ortholog: 1p34.3 Cellular Component: nucleoplasm; cytoplasm; plasma membrane Molecular Function: protein binding; endonuclease activity; metal ion binding Biological Process: apoptosis; inhibition of NF-kappaB transcription factor; negative regulation of nitric oxide biosynthetic process; negative regulation of interleukin-6 production; positive regulation of fat cell differentiation; angiogenesis; negative regulation of tumor necrosis factor production; negative regulation of macrophage activation; cell differentiation; positive regulation of autophagy
Research Articles on ZC12A	**1.** In this review we summarize current progress regarding the specific characteristics of sequences and structures in the 3' untranslated regions of mRNAs that are recognized by tristetraproline, Roquins, and Regnase-1.
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