ZBP1 Antibody

Catalog No: #24608

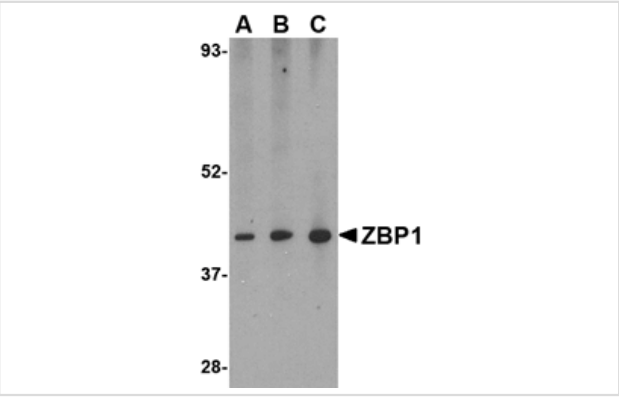
Package Size: #24608 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

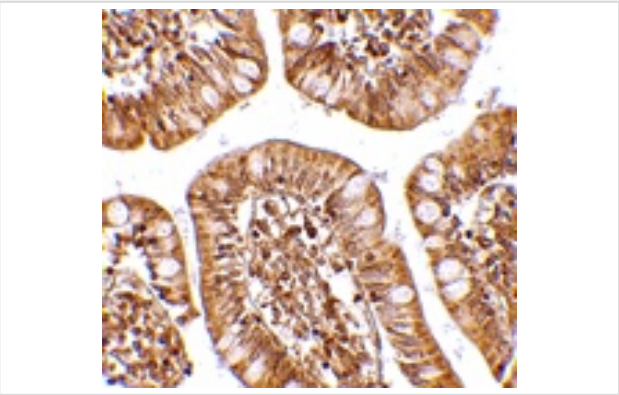
Description

Product Name	ZBP1 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Type	Peptide
Immunogen Description	Raised against a 18 amino acid peptide from near the carboxy terminus of human ZBP1.
Conjugates	Unconjugated
Target Name	ZBP1
Other Names	Z-DNA binding protein 1, DLM-1, DAI
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for 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.

Images



Western blot analysis of ZBP1 in mouse small intestine tissue lysate with ZBP1 antibody at (A) 0.5, (B) 1 and (C) 2 ug/mL.



Immunohistochemistry of ZBP1 in human small intestine tissue with ZBP1 antibody at 2.5 ug/mL.

Background

Z-DNA binding protein 1 (ZBP1) belongs to a family of proteins that contain the Zalpha domain which binds specifically to left-handed Z-DNA and Z-RNA. ZBP1 was initially identified as a novel gene that was up-regulated in activated macrophages in mice bearing ascites tumors, suggesting that is may play a role in processes such as host response in neoplasia. More recent reports indicate that the cytosolic ZBP1 has can act like the toll-like receptor TLR9 by detecting cytosolic double-stranded (ds) DNA and trigger induction of type I interferon and other innate immune responses. It is thought that the binding of ZBP1 to dsDNA enhances its association with innate immune response proteins such as the IRF3 transcription factor and the serine/threonine kinase TBK1 (also known as NAK). Multiple isoforms of ZBP1 are known to exist.

Published Papers

el at., Inhibition of DAI refrains dendritic cells from maturation and prolongs murine islet and skin allograft survivalIn Front ImmunolOn2023 May 18byPengrui Cheng , Qian Jian et al..PMID:37197662, , (2023)

PMID:37197662

Yaru Wang;Xingxing Fu;Zhao Shang;Yamei Qiao;Yue Liu;Li Zhou;Dan Liu el at., In vivo and in vitro study on the regulatory mechanism of XiaoChaiHu decoction on PANoptosis in sepsis-induced cardiomyopathy., , (2025)

PMID:39197800

Note: This product is for in vitro research use only and is not intended for use in humans or animals.