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MDFIC Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP58431

Specification

MDFIC Polyclonal Antibody - Product Information

Application	**WB, IHC-P, IHC-F, IF, E**
Primary Accession	Q9P1T7
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**26 KDa**
Physical State	**Liquid**
Immunogen	**KLH conjugated synthetic peptide derived from human MDFIC**
Epitope Specificity	**121-220/246**
Isotype	**IgG**

Purity
affinity purified by Protein A

Buffer	**0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.**
SUBCELLULAR LOCATION	**Isoform 1: Nucleus, nucleolus. Note=Also shows a granular distribution in the cytoplasm. Isoform 2: Cytoplasm. Note=Weak expression in the nucleus.**
SIMILARITY	**Belongs to the MDFI family.**
SUBUNIT	**Interacts with HAND1; leading to sequester HAND1 into the nucleolus and prevent its activity. Interacts with ZIC2 (By similarity). The C-terminus interacts with HIV-1 Tat and Rev, AXIN1, the histidine-rich region of CCNT1/cyclin-T and weakly with LEF1.**
Important Note	**This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.**

Background Descriptions
This gene product is a member of a family of proteins characterized by a specific cysteine-rich C-terminal domain, which is involved in transcriptional regulation of viral genome expression. Alternative translation initiation from an upstream non-AUG (GUG), and an in-frame, downstream AUG codon, results in the production of two isoforms, p40 and p32, respectively, which have different subcellular localization; p32 is mainly found in the cytoplasm, whereas p40 is targeted to the nucleolus. Both isoforms have transcriptional regulatory activity that is attributable to the cysteine-rich C-terminal domain. Alternative splicing results in multiple transcript variants.

MDFIC Polyclonal Antibody - Additional Information

Gene ID 29969

Other Names
MyoD family inhibitor domain-containing protein, I-mfa domain-containing protein, hIC, MDFIC (HGNC:28870)

Target/Specificity
Expressed in lymphoid organs (spleen, thymus, peripheral blood leukocytes) as well as prostate, uterus and small intestine.

Dilution
WB~~1:1000<br \>IHC-P~~N/A<br \>IHC-F~~N/A<br \>IF~~1:50~200<br \>E~~N/A

Storage
Store at -20 ℃ for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ℃.

MDFIC Polyclonal Antibody - Protein Information

Name MDFIC (HGNC:28870)

Function
Required to control the activity of various transcription factors through their sequestration in the cytoplasm. Retains nuclear Zic proteins ZIC1, ZIC2 and ZIC3 in the cytoplasm and inhibits their transcriptional activation (By similarity). Modulates the expression from cellular promoters. Binds to the axin complex, resulting in an increase in the level of free beta-catenin (PubMed:12192039). Affects axin regulation of the WNT and JNK signaling pathways (PubMed:12192039). Involved in the development of lymphatic vessel valves (By similarity). Required to promote lymphatic endothelial cell migration, in a process that involves down-regulation of integrin beta 1 activation and control of cell adhesion to the extracellular matrix (PubMed:35235341). Regulates the activity of mechanosensitive Piezo channel (PubMed:37590348).

Cellular Location
[Isoform 1]: Nucleus, nucleolus. Note=Also shows a granular distribution in the cytoplasm

Tissue Location
Expressed in lymphatic tissues. Detected in the spleen, thymus, peripheral blood leukocytes as well as prostate, uterus and small intestine. Expressed in lymphatic endothelial cells (PubMed:35235341).

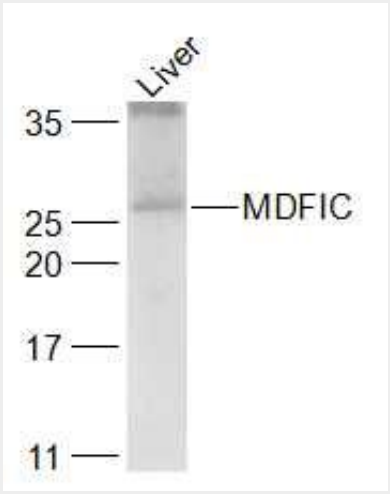
MDFIC Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

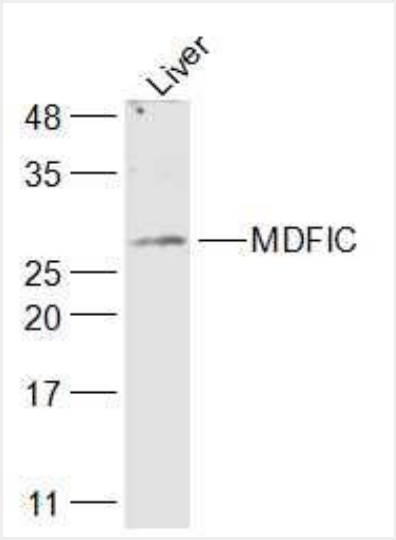
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MDFIC Polyclonal Antibody - Images



Sample:
Liver (Mouse) Lysate at 40 ug
Primary: Anti-MDFIC (bs-6386R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 26 kD
Observed band size: 26 kD



Sample:
Liver (Rat) Lysate at 40 ug
Primary: Anti-MDFIC (bs-6386R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 26 kD
Observed band size: 26/27 kD

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