

Datasheet for ABIN1680390
anti-IFITM1 antibody (C-Term)

5 Images

1 Publication

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Overview

Quantity:	100 µg
Target:	IFITM1
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IFITM1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 50 to the C-terminus of human IFITM1 (NP_003632.3).
Sequence:	CCLGFIAFAY SVKSRDRKMV GDVTGAQAYA STAKCLNIWA LILGILMTIG FILLLVFGSV TVYHIMLQII QEKRGY
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	IFITM1
Alternative Name:	IFITM1 (IFITM1 Products)
Background:	<p>IFN-induced antiviral protein which inhibits the entry of viruses to the host cell cytoplasm, permitting endocytosis, but preventing subsequent viral fusion and release of viral contents into the cytosol. Active against multiple viruses, including influenza A virus, SARS coronaviruses (SARS-CoV and SARS-CoV-2, Marburg virus (MARV, Ebola virus (EBOV, Dengue virus (DNV, West Nile virus (WNV, human immunodeficiency virus type 1 (HIV-1 and hepatitis C virus (HCV. Can inhibit: influenza virus hemagglutinin protein-mediated viral entry, MARV and EBOV GP1,2-mediated viral entry and SARS-CoV and SARS-CoV-2 S protein-mediated viral entry. Also implicated in cell adhesion and control of cell growth and migration. Inhibits SARS-CoV-2 S protein-mediated syncytia formation. Plays a key role in the antiproliferative action of IFN-gamma either by inhibiting the ERK activation or by arresting cell growth in G1 phase in a p53-dependent manner. Acts as a positive regulator of osteoblast differentiation. In hepatocytes, IFITM proteins act in a coordinated manner to restrict HCV infection by targeting the endocytosed HCV virion for lysosomal degradation. IFITM2 and IFITM3 display anti-HCV activity that may complement the anti-HCV activity of IFITM1 by inhibiting the late stages of HCV entry, possibly in a coordinated manner by trapping the virion in the endosomal pathway and targeting it for degradation at the lysosome.,IFITM1,9-27,CD225,DSPA2a,IFI17,LEU13,Cancer,Tumor biomarkers,Tumor suppressors,p53 pathway,Signal Transduction,Immunology & Inflammation,CD markers,Cytokines,Interferons,Cell Intrinsic Innate Immunity Signaling Pathway,Stem Cells,IFITM1</p>
Molecular Weight:	13 kDa
Gene ID:	8519
UniProt:	P13164

Application Details

Application Notes:	WB,1:200 - 1:2000,IHC,1:50 - 1:200
Restrictions:	For Research Use only

Handling

Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
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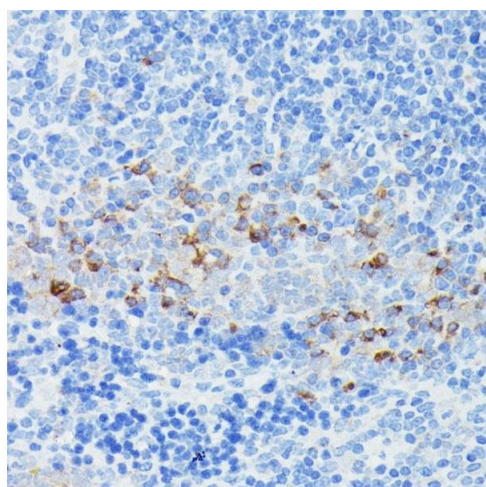
Handling

Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

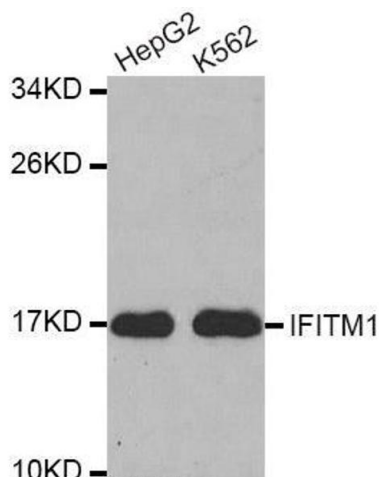
Product cited in:	Wang, Lin, Chen, Zhu, Jiang, Li, Wang et al.: "Overexpression of mitochondrial Hsp75 protects neural stem cells against microglia-derived soluble factor-induced neurotoxicity by regulating mitochondrial permeability transition pore opening in ..." in: International journal of molecular medicine , Vol. 36, Issue 6, pp. 1487-96, (2016) (PubMed).
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Validation report #104350 for Cleavage Under Targets and Release Using Nuclease (CUT&RUN)



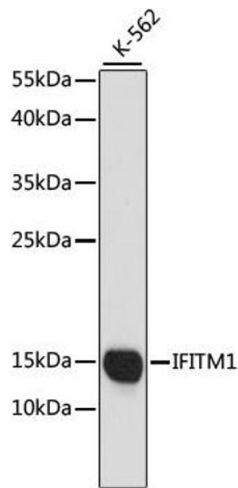
Immunohistochemistry

Image 1. Immunohistochemistry of paraffin-embedded mouse spleen using CD225/IFITM1 antibody (ABIN1680390, ABIN3018715, ABIN3018716 and ABIN6220553) at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using IFITM1 antibody.



Western Blotting

Image 3. Western blot analysis of extracts of K-562 cells, using CD225/IFITM1 antibody (ABIN1680390, ABIN3018715, ABIN3018716 and ABIN6220553) at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN1680390.