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# Datasheet for ABIN3042392 anti-FHIT antibody (AA 1-147)

4 Images

2 Publications



# Overview

Quantity:	100 µg
Target:	FHIT
Binding Specificity:	AA 1-147
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FHIT antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	
Purpose:	Rabbit IgG polyclonal antibody for Bis(5'-adenosyl)-triphosphatase(FHIT) detection. Tested with WB, IHC-P in Human.
Immunogen:	E.coli-derived human FHIT recombinant protein (Position: M1-Q147). Human FHIT shares 90% and 87% amino acid (aa) sequences identity with mouse and rat FHIT, respectively.
lsotype:	lgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Bis(5'-adenosyl)-triphosphatase(FHIT) detection. Tested with WB, IHC-P in Human.

Gene Name: fragile histidine triad

Protein Name: Bis(5'-adenosyl)-triphosphatase

Purification:

Immunogen affinity purified.

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Target:	FHIT
Alternative Name:	FHIT (FHIT Products)
Background:	Bis(5'-adenosyl)-triphosphatase, also known as fragile histidine triad protein (FHIT) is an
	enzyme that in humans is encoded by the FHIT gene. This gene, a member of the histidine tria
	gene family, encodes a diadenosine P1,P3-bis(5'-adenosyl)-triphosphate adenylohydrolase
	involved in purine metabolism. The gene encompasses the common fragile site FRA3B on
	chromosome 3p14.2, where carcinogen-induced damage can lead to translocations and
	aberrant transcripts of this gene. In fact, aberrant transcripts from this gene have been found i
	about half of all esophageal, stomach, and colon carcinomas. Furthermore, FHIT has been
	shown to synergize with VHL, another tumor suppressor, in protecting against chemically -
	induced lung cancer. It also acts as a tumor suppressor of HER2/neu driven breast cancer.
	Synonyms: AP3A hydrolase antibody AP3A hydrolase fragile site 3p14.2 antibody AP3Aase
	antibody Bis 5' adenosyl triphosphatase antibody Bis(5' adenosyl) triphosphatase
	antibody Diadenosine 5' 5''' P1 P3 triphosphate hydrolase antibody Dinucleosidetriphosphatase
	antibody FRA 3B antibody FRA3B antibody Fragile histidine triad antibody Fragile histidine triad
	gene antibody Fragile histidine triad protein antibody Tumor suppressor protein antibody
Gene ID:	2272
JniProt:	P49789
Application Details	
Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for FHIT is

Application Notes:	WB: Concentration: 0.1-0.5 $\mu\text{g/mL}$ , Tested Species: Human, The detection limit for FHIT is
	approximately 0.25 ng/lane under reducing conditions.
	IHC-P: Concentration: 0.5-1 $\mu$ g/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling
	the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of
	formalin/paraffin sections.
	Notes: Tested Species: Species with positive results. Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by
	ABIN921231 in IHC(P).
Restrictions:	For Research Use only

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#### Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 $\mu$ g/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

### Publications

Product cited in: Ostermann, Seeliger, David, Flasche, Maus, Reinboth, Christmann, Neumann, Brand, Seltmann, Bühling, Paton, Roth, Vogl, Viemann, Welte, Maus: "S100A9 is indispensable for survival of pneumococcal pneumonia in mice." in: **PLoS pathogens**, Vol. 19, Issue 7, pp. e1011493, (2023) (PubMed).

> Ostermann, Maus, Stolper, Schütte, Katsarou, Tumpara, Pich, Mueller, Janciauskiene, Welte, Maus: "Alpha-1 antitrypsin deficiency impairs lung antibacterial immunity in mice." in: **JCI insight**, Vol. 6, Issue 3, (2021) (PubMed).

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Zhou, Chen, Jiang, Feng, Han: "Effects of bone marrow-derived mesenchymal stem cells transfected with survivin on pulmonary fibrosis in mice." in: **Experimental and therapeutic medicine**, Vol. 10, Issue 5, pp. 1857-1864, (2015) (PubMed).

Wu, You, Ma, Li, Yuan, Li, Ye, Liu, Yao, Chen, Lai, Yang: "Role of transient receptor potential ion

channels and evoked levels of neuropeptides in a formaldehyde-induced model of asthma in BALB/c mice." in: **PLoS ONE**, Vol. 8, Issue 5, pp. e62827, (2013) (PubMed).

# Images

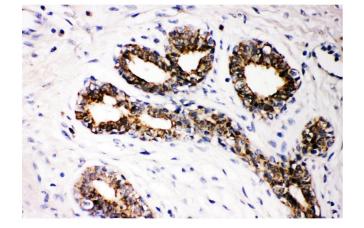
100KI	)-		
70KI	)-		
55KI	-0		
35KI	D-	-	
25K	D-		
15K	D -		
	1	2	3
97KD —			
58KD —			
40KD —			
29KD —			
20KD —	_	_	_
14KD -	_	_	

#### Western Blotting

**Image 1.** Anti- FHIT Picoband antibody, Western blotting All lanes: Anti FHIT at 0.5ug/ml WB: Recombinant Human FHIT Protein 0.5ng Predicted bind size: 39KD Observed bind size: 39KD

#### Western Blotting

Image 2.



#### Immunohistochemistry

**Image 3.** Anti- FHIT Picoband antibody, IHC(P) IHC(P): Human Mammary Cancer Tissue

Please check the product details page for more images. Overall 4 images are available for ABIN3042392.

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