

Datasheet for ABIN734198
anti-FHIT antibody (AA 31-147)[Go to Product page](#)

1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	FHIT
Binding Specificity:	AA 31-147
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FHIT antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human FHIT
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Dog, Cow, Pig, Horse, Chicken, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	FHIT
Alternative Name:	FHIT (FHIT Products)

Target Details

Background:	<p>Synonyms: FRA3B, AP3Aase, Bis(5'-adenosyl)-triphosphatase, AP3A hydrolase, Diadenosine 5',5'''-P1,P3-triphosphate hydrolase, Dinucleosidetriphosphatase, Fragile histidine triad protein, FHIT</p> <p>Background: Cleaves P(1)-P(3)-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP. Can also hydrolyze P(1)-P(4)-bis(5'-adenosyl) tetraphosphate (Ap4A), but has extremely low activity with ATP. Modulates transcriptional activation by CTNNB1 and thereby contributes to regulate the expression of genes essential for cell proliferation and survival, such as CCND1 and BIRC5. Plays a role in the induction of apoptosis via SRC and AKT1 signaling pathways. Inhibits MDM2-mediated proteasomal degradation of p53/TP53 and thereby plays a role in p53/TP53-mediated apoptosis. Induction of apoptosis depends on the ability of FHIT to bind P(1)-P(3)-bis(5'-adenosyl) triphosphate or related compounds, but does not require its catalytic activity, it may in part come from the mitochondrial form, which sensitizes the low-affinity Ca(2+) transporters, enhancing mitochondrial calcium uptake. Functions as tumor suppressor.</p>
-------------	--

Gene ID: 2272

UniProt: [P49789](#)

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
--------------------	--

Restrictions: For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

Handling

Storage: 4 °C, -20 °C

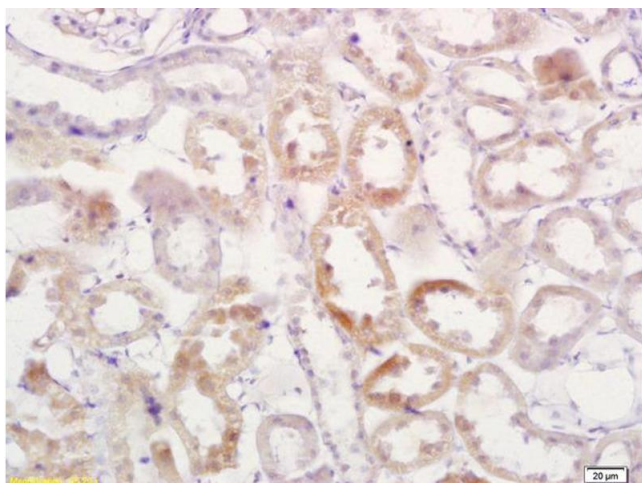
Storage Comment: Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Expiry Date: 12 months

Publications

Product cited in: Liu, Ao, Zhou, Cui, Zhou, Yuan, Xiang, Cao, Liu: "CpG island hypermethylation of multiple tumor suppressor genes associated with loss of their protein expression during rat lung carcinogenesis induced by 3-methylcholanthrene and diethylnitrosamine." in: **Biochemical and biophysical research communications**, Vol. 402, Issue 3, pp. 507-14, (2010) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat kidney labeled with Anti-FHIT Polyclonal Antibody, Unconjugated (ABIN734198) at 1:200 followed by conjugation to the secondary antibody and DAB staining