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Datasheet for ABIN7145619
anti-FHIT antibody (AA 2-147)

2 Images

Overview

Quantity:	100 µg
Target:	FHIT
Binding Specificity:	AA 2-147
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This FHIT antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Bis(5\'-adenosyl)-triphosphatase protein (2-147AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	FHIT
Alternative Name:	FHIT (FHIT Products)
Background:	Background: Cleaves P1-P3-bis(5\'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP. Can also hydrolyze P1-P4-bis(5\'-adenosyl) tetraphosphate (Ap4A), but has extremely low activity

Target Details

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 P1-P3-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 Ca²⁺ transporters, enhancing mitochondrial calcium uptake. Functions as tumor suppressor. Aliases: FHITBis(5'-adenosyl)-triphosphatase antibody, EC 3.6.1.29 antibody, AP3A hydrolase antibody, AP3Aase antibody, Diadenosine 5',5''-P1,P3-triphosphate hydrolase antibody, Dinucleosidetriphosphatase antibody, Fragile histidine triad protein antibody

UniProt: [P49789](#)

Application Details

Application Notes: Recommended dilution: IHC:1:500-1:1000, IF:1:50-1:500,

Restrictions: For Research Use only

Handling

Format: Liquid

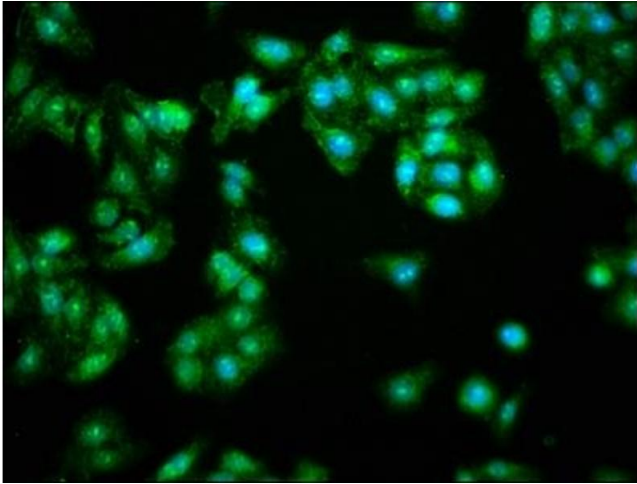
Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

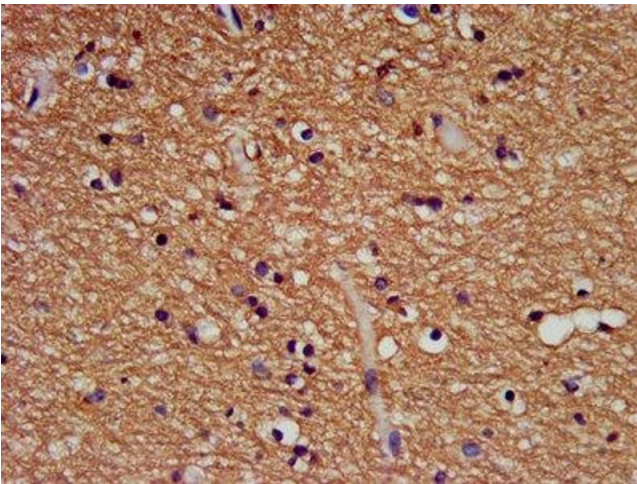
Storage: -20 °C,-80 °C

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.



Immunofluorescence

Image 1. Immunofluorescence staining of HepG2 cells with ABIN7145619 at 1:166, counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



Immunohistochemistry

Image 2. IHC image of ABIN7145619 diluted at 1:500 and staining in paraffin-embedded human brain tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.