

Rabbit anti-Human FHIT Polyclonal Antibody | anti-FHIT antibody

FHIT Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321140	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

FHIT; Polyclonal Antibody; FHIT Antibody; AP3A hydrolase; AP3A hydrolase fragile site 3p14.2; AP3Aase; Bis 5' adenosyl triphosphatase; Bis(5' adenosyl) triphosphatase; Diadenosine 5' 5''' P1 P3 triphosphate hydrolase; Dinucleosidetriphosphatase; FRA 3B; FRA3B; Fragile histidine triad; Fragile histidine triad gene; Fragile histidine triad protein; Tumor suppressor protein; anti-FHIT antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	FHIT antibody detects endogenous levels of FHIT
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	147
Applicable Applications for anti-FHIT antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human FHIT
Subcellular Location	Cytoplasmic
Tissue Specificity	Low levels expressed in all tissues tested. Phospho-FHIT observed in liver and kidney, but not in brain and lung. Phospho-FHIT undetected in all tested human tumor cell lines.
Predicted Cross Reactivity	Rabbit, Xenopus
Similarity	Rabbit (89%), Xenopus (89%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
AAA321140 at 1/100 staining human brain tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)
Western blot analysis on A549 cell lysate using FHIT Antibody, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA321140 staining MCF-7 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-FHIT antibody

Description: This gene, a member of the histidine triad gene family, encodes a diadenosine 5', 5'''-P1, P3-triphosphate hydrolase involved in purine metabolism. The gene encompasses the common fragile site FRA3B on chromosome 3, where carcinogen-induced damage can lead to translocations and aberrant transcripts of this gene. In fact, aberrant transcripts from this gene have been found in about half of all esophageal, stomach, and colon carcinomas. [provided by RefSeq]

Function: 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 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.

Subunit Structure: Homodimer. Interacts with UBE2I. Interacts with MDM2. Interacts with CTNNB1. Identified in a complex with CTNNB1 and LEF1.

Post-translational Modifications: Phosphorylation at Tyr-114 by SRC is required for induction of apoptosis.

NCBI AND UNIPROT INFORMATION

NCBI GI #	261278358
NCBI GeneID	2272
NCBI Accession #	NP_001159715.1
NCBI GenBank Nucleotide #	NM_001166243.2
UniProt Accession #	P49789; Q45QG9; Q6IU12; A2IAS9; A2IAT0; A2IAT6; A8K1A9
Molecular Weight	Observed: 16 kDa Predicted: 17 kDa
NCBI Official Full Name	bis(5'-adenosyl)-triphosphatase isoform 1
NCBI Official Synonym Full Names	fragile histidine triad
NCBI Official Symbol	FHIT

NCBI Official Synonym Symbols	FRA3B; AP3Aase
NCBI Protein Information	bis(5'-adenosyl)-triphosphatase
UniProt Protein Name	Bis(5'-adenosyl)-triphosphatase
UniProt Gene Name	FHIT
UniProt Synonym Gene Names	AP3Aase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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