

FHIT Antibody (N-Term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21842a**Specification**

FHIT Antibody (N-Term) - Product Information

Application	WB,E
Primary Accession	P49789
Reactivity	Human
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Calculated MW	16858

FHIT Antibody (N-Term) - Additional Information**Gene ID** 2272**Other Names**

Bis(5'-adenosyl)-triphosphatase, AP3A hydrolase, AP3Aase, Diadenosine 5', 5'''-P1, P3-triphosphate hydrolase, Dinucleosidetriphosphatase, Fragile histidine triad protein, FHIT

Target/Specificity

This FHIT antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 19-54 amino acids from human FHIT.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

FHIT Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

FHIT Antibody (N-Term) - Protein Information**Name** FHIT

Function Possesses dinucleoside triphosphate hydrolase activity (PubMed:[12574506](#), PubMed:[15182206](#), PubMed:[8794732](#), PubMed:[9323207](#), PubMed:[9543008](#), PubMed:[9576908](#)).

Cleaves P(1)-P(3)-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP (PubMed:[12574506](#), PubMed:[15182206](#), PubMed:[8794732](#), PubMed:[9323207](#), PubMed:[9543008](#), PubMed:[9576908](#)). Can also hydrolyze P(1)-P(4)-bis(5'-adenosyl) tetraphosphate (Ap4A), but has extremely low activity with ATP (PubMed:[8794732](#)). Exhibits adenylylsulfatase activity, hydrolyzing adenosine 5'-phosphosulfate to yield AMP and sulfate (PubMed:[18694747](#)). Exhibits adenosine 5'-monophosphoramidase activity, hydrolyzing purine nucleotide phosphoramidates with a single phosphate group such as adenosine 5'monophosphoramidate (AMP-NH₂) to yield AMP and NH₂ (PubMed:[18694747](#)). Exhibits adenylylsulfate-ammonia adenylyltransferase, catalyzing the ammonolysis of adenosine 5'- phosphosulfate resulting in the formation of adenosine 5'-phosphoramidate (PubMed:[26181368](#)). Also catalyzes the ammonolysis of adenosine 5-phosphorofluoridate and diadenosine triphosphate (PubMed:[26181368](#)). 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 (PubMed:[18077326](#)). Plays a role in the induction of apoptosis via SRC and AKT1 signaling pathways (PubMed:[16407838](#)). Inhibits MDM2-mediated proteasomal degradation of p53/TP53 and thereby plays a role in p53/TP53-mediated apoptosis (PubMed:[15313915](#)). 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 (PubMed:[12574506](#), PubMed:[19622739](#)). Functions as a tumor suppressor (By similarity).

Cellular Location

Cytoplasm. Mitochondrion. Nucleus

Tissue Location

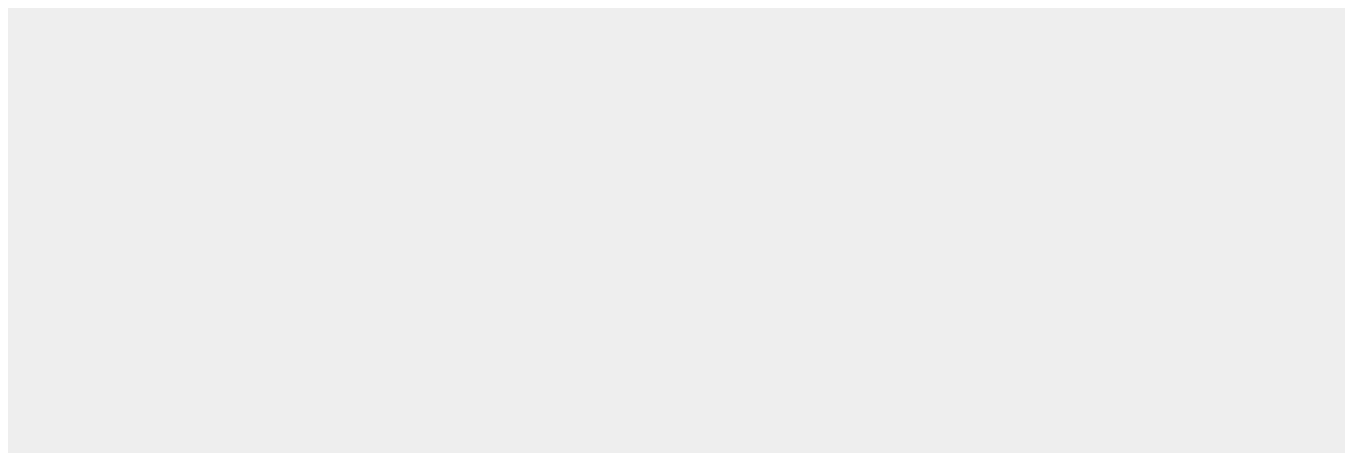
Low levels expressed in all tissues tested. Phospho-FHIT observed in liver and kidney, but not in brain and lung Phospho-FHIT undetected in all tested human tumor cell lines

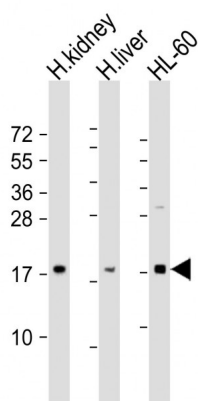
FHIT Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

FHIT Antibody (N-Term) - Images





All lanes : Anti-FHIT Antibody (N-Term) at 1:2000 dilution Lane 1: human kidney lysate Lane 2: human liver lysate Lane 3: HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 17 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

FHIT Antibody (N-Term) - Background

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FHIT Antibody (N-Term) - References

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Druck T.,et al.Cancer Res. 57:504-512(1997).
Corominas R.,et al.Nat. Commun. 5:3650-3650(2014).
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