

Anti-FHIT Antibody (aa80-129)
Rabbit Anti Human Polyclonal Antibody
Catalog # ALS18309**Specification**

Anti-FHIT Antibody (aa80-129) - Product Information

Application	IHC-P, E
Primary Accession	P49789
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	16858

Anti-FHIT Antibody (aa80-129) - Additional Information**Gene ID 2272**Alias Symbol **FHIT****Other Names**

FHIT, AP3Aase, Dinucleosidetriphosphatase, Fragile histidine triad, Fragile histidine triad gene, AP3A hydrolase, Bis(5-adenosyl)-triphosphatase, FRA3B, Tumor suppressor protein

Target/Specificity

FHIT Antibody detects endogenous levels of FHIT.

Reconstitution & Storage

Immunoaffinity purified

Precautions

Anti-FHIT Antibody (aa80-129) is for research use only and not for use in diagnostic or therapeutic procedures.

Anti-FHIT Antibody (aa80-129) - Protein Information**Name FHIT****Function**

Possesses dinucleoside triphosphate hydrolase activity (PubMed:12574506, PubMed:15182206, PubMed:8794732, PubMed:9323207, PubMed:9576908, PubMed:9543008). Cleaves P(1)-P(3)-bis(5'-adenosyl) triphosphate (Ap3A) to yield AMP and ADP (PubMed:12574506, PubMed:15182206, PubMed:8794732, PubMed:9323207, PubMed:9576908, PubMed:9543008).

[>8794732, PubMed:9323207, PubMed:9576908, PubMed:9543008\). 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 \(By similarity\).](http://www.uniprot.org/citations/8794732)

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

Anti-FHIT Antibody (aa80-129) - 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](#)

Anti-FHIT Antibody (aa80-129) - Images