

ARG58030 anti-FHIT antibody

Package: 50 µg
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes FHIT
Tested Reactivity	Hu, Rat
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	FHIT
Species	Human
Immunogen	Recombinant protein corresponding to aa. 1-147 of Human FHIT.
Conjugation	Un-conjugated
Alternate Names	FRA3B; AP3Aase; Bis(5'-adenosyl)-triphosphatase; EC 3.6.1.29; AP3A hydrolase; AP3Aase; Diadenosine 5',5'''-P1,P3-triphosphate hydrolase; Dinucleosidetriphosphatase; Fragile histidine triad protein

Application Instructions

Application table	Application	Dilution
	FACS	1 - 3 µg/10 ⁶ cells
	ICC/IF	1 - 5 µg/ml
	IHC-P	1 - 5 µg/ml
	WB	0.5 - 1 µg/ml
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Observed Size	~ 17 kDa	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS, 0.025% Sodium azide and 2.5% BSA.
Preservative	0.025% Sodium azide
Stabilizer	2.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

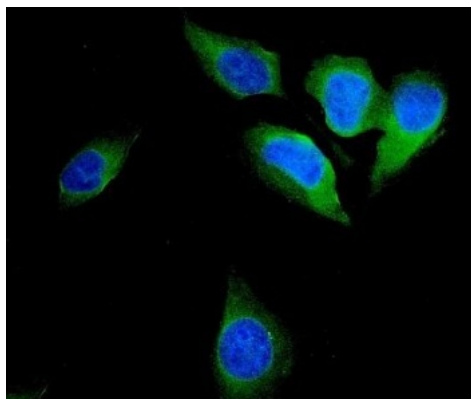
freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

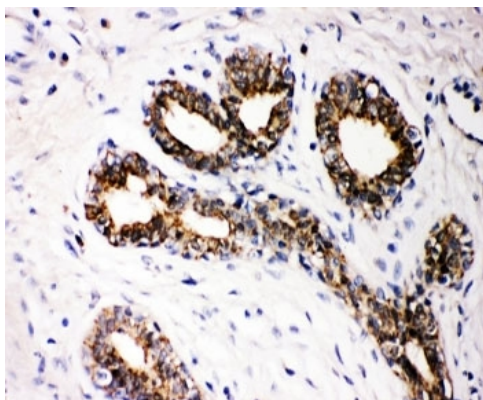
Gene Symbol	FHIT
Gene Full Name	fragile histidine triad
Background	This gene, a member of the histidine triad gene family, encodes a diadenosine 5',5'''-P1,P3-triphosphate hydrolase involved in purine metabolism. The gene encompasses the common fragile site FRA3B on chromosome 3, where carcinogen-induced 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. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Oct 2009]
Function	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. [UniProt]
Calculated Mw	17 kDa
PTM	Phosphorylation at Tyr-114 by SRC is required for induction of apoptosis. [UniProt]

Images



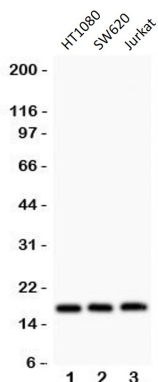
ARG58030 anti-FHIT antibody ICC/IF image

Immunofluorescence: U-2 OS cells stained with ARG58030 anti-FHIT antibody (green). DAPI (blue) for nuclear staining.



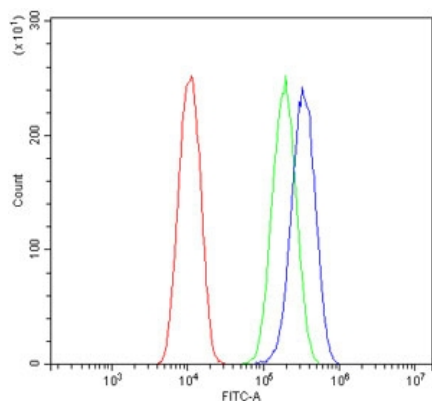
ARG58030 anti-FHIT antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast cancer tissue stained with ARG58030 anti-FHIT antibody.



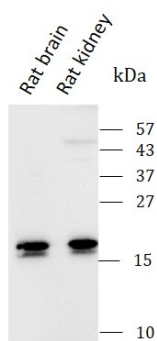
ARG58030 anti-FHIT antibody WB image

Western blot: 1) HT1080, 2) SW620 and 3) Jurkat cell lysates stained with ARG58030 anti-FHIT antibody.



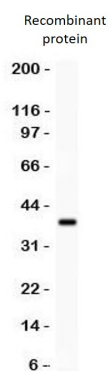
ARG58030 anti-FHIT antibody FACS image

Flow Cytometry: U-2 OS cells were blocked with goat sera and stained with ARG58030 anti-FHIT antibody at $1 \mu\text{g}/10^6$ cells (blue); Cells alone (red); Isotype control (green).



ARG58030 anti-FHIT antibody WB image

Western blot: Rat brain and Rat kidney stained with ARG58030 anti-FHIT antibody at $0.5 \mu\text{g}/\text{ml}$ dilution.



ARG58030 anti-FHIT antibody WB image

Western blot: 0.5 ng of recombinant Human protein stained with ARG58030 anti-FHIT antibody.