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FHIT Antibody (monoclonal) (M07)

Mouse monoclonal antibody raised against a partial recombinant FHIT.
Catalog # AT2047a

Product Information

Application	WB, IF, E
Primary Accession	P49789
Other Accession	BC032336
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1H2
Calculated MW	16858

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	FHIT (AAH32336, 31 a.a. ~ 130 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	FHIT Antibody (monoclonal) (M07) is for research use only and not for use in diagnostic or therapeutic procedures.

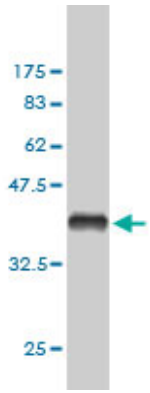
Background

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.

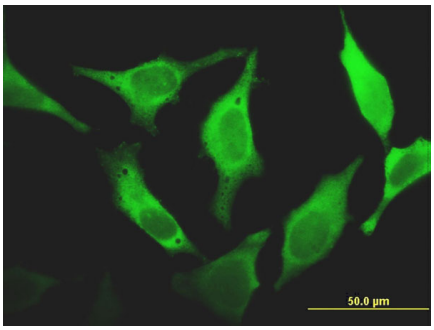
References

Homozygous deletion but not mutation of exons 5 and 8 of the fragile histidine triad (FHIT) gene is associated with features of differentiated thyroid carcinoma. Yin DT, et al. Ann Clin Lab Sci, 2010 Summer. PMID 20689140.Variation at the NFATC2 Locus Increases the Risk of Thiazolinedinedione-Induced Edema in the Diabetes REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086.[The relationship between FHIT and WWOX expression and clinicopathological features in hepatocellular carcinoma] Lin J, et al. Zhonghua Gan Zang Bing Za Zhi, 2010 May. PMID 20510001.[Genetic and epigenetic changes of FHIT gene in patients with esophageal cancer] Tsao I, et al. Tsitol Genet, 2009 Nov-Dec. PMID 20458975.Genomic profiling of adult acute lymphoblastic leukemia by single nucleotide polymorphism oligonucleotide microarray and comparison to pediatric acute lymphoblastic leukemia. Okamoto R, et al. Haematologica, 2010 Sep. PMID 20435627.

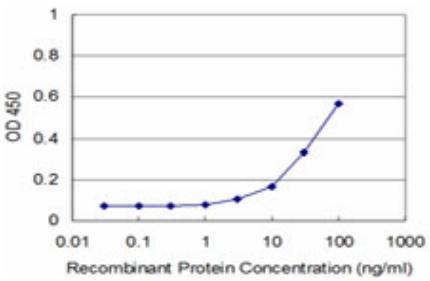
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



Immunofluorescence of monoclonal antibody to FHIT on HeLa cell . [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged FHIT is approximately 3ng/ml as a capture antibody.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.