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FHIT Antibody (monoclonal) (M07)

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

Specification

FHIT Antibody (monoclonal) (M07) - Product Information

Application	**WB, IF, E**
Primary Accession	P49789
Other Accession	BC032336
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**16858**

FHIT Antibody (monoclonal) (M07) - 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.

FHIT Antibody (monoclonal) (M07) - Protocols

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

- Western Blot

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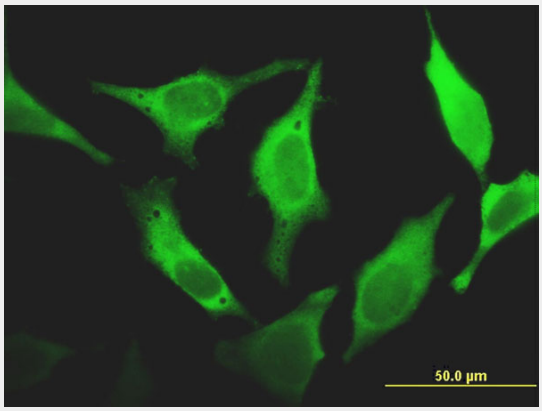
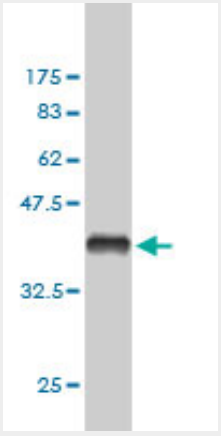
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

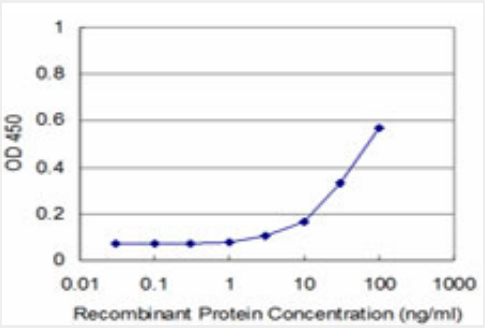
FHIT Antibody (monoclonal) (M07) - Images



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



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



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

FHIT Antibody (monoclonal) (M07) - Background

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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.

FHIT Antibody (monoclonal) (M07) - 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.