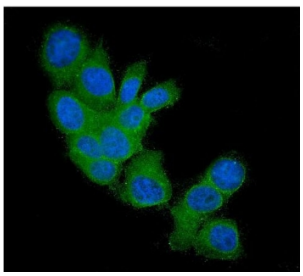
FHIT Antibody [clone 26H7] (RQ4518)

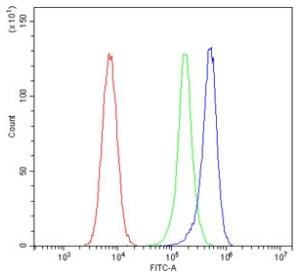
Catalog No.	Formulation	Size
RQ4518	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

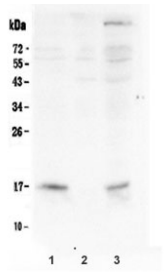
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG
Clone Name	26H7
Purity	Protein G affinity
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P49789
Localization	Nucleus, Cytoplasm
Applications	Western blot: 0.5-1ug/ml Immunofluorescence (FFPE): 2-4ug/ml Flow cytometry: 1-3ug/million cells
Limitations	This FHIT antibody is available for research use only.



Immunofluorescent staining of FFPE human MCF7 cells with FHIT antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Flow cytometry testing of human 293T cells with FHIT antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= FHIT antibody.



Western blot testing of human 1) COLO-320, 2) SW620 and 3) SGC-7901 lysate with FHIT antibody. Predicted molecular weight ~17 kDa.

Description

Bis(5'-adenosyl)-triphosphatase, also known as fragile histidine triad protein (FHIT) is an enzyme that in humans is encoded by the FHIT gene. This gene, a member of the histidine triad gene family, encodes a diadenosine P1,P3-bis(5'-adenosyl)-triphosphate adenylohydrolase involved in purine metabolism. The gene encompasses the common fragile site FRA3B on chromosome 3p14.2, 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. Furthermore, FHIT has been shown to synergize with VHL, another tumor suppressor, in protecting against chemically - induced lung cancer. It also acts as a tumor suppressor of HER2/neu driven breast cancer.

Application Notes

Optimal dilution of the FHIT antibody should be determined by the researcher.

Immunogen

Human FHIT recombinant protein (amino acids M1-Q147) was used as the immunogen for the FHIT antibody antibody.

Storage

After reconstitution, the FHIT antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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