

Product datasheet for **TP307120M**

FHIT (NM_002012) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human fragile histidine triad gene (FHIT), 100 µg

Species: Human

Expression Host: HEK293T

**Expression cDNA Clone
or AA Sequence:** >RC207120 protein sequence
Red=Cloning site **Green**=Tags(s)

MSFRFGQHLLIKPSVWFLKTELSFALVNRKPVVPGHVLVCLRPVERFHDLRPDEVADLFQTTQVRVGTVE
KHFHGTSLTFSMQDGPEAGQTVKHVHVHVLPRKAGDFHRNDSIYEELQKHKEDFPASWRSEEEEMAAEAA
ALRVYFQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 16.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_002003](#)

Locus ID: 2272

UniProt ID: [P49789](#), [A0A024R366](#)

RefSeq Size: 1103



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Cytogenetics: 3p14.2

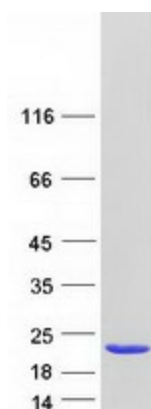
RefSeq ORF: 441

Synonyms: AP3Aase; FRA3B

Summary: The protein encoded by this gene is a P1-P3-bis(5'-adenosyl) triphosphate hydrolase involved in purine metabolism. This gene encompasses the common fragile site FRA3B on chromosome 3, where carcinogen-induced damage can lead to translocations and aberrant transcripts. In fact, aberrant transcripts from this gene have been found in about half of all esophageal, stomach, and colon carcinomas. The encoded protein is also a tumor suppressor, as loss of its activity results in replication stress and DNA damage. [provided by RefSeq, Aug 2017]

Protein Pathways: Non-small cell lung cancer, Purine metabolism, Small cell lung cancer

Product images:



Coomassie blue staining of purified FHIT protein (Cat# [TP307120]). The protein was produced from HEK293T cells transfected with FHIT cDNA clone (Cat# [RC207120]) using MegaTran 2.0 (Cat# [TT210002]).