

## Fhit (Phospho Tyr114) Rabbit pAb

CatalogNo: YP1114

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human,Rat,Mouse,

#### Applications

- IHC,IF,ELISA

#### MW

- 17kD (Calculated)

#### Isotype

- IgG

### Recommended Dilution Ratios

IHC 1:100-1:300

ELISA 1:40000

IF 1:50-200

### Storage

**Storage\*** -15°C to -25°C/1 year(Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** The antiserum was produced against synthesized peptide derived from human FHIT around the phosphorylation site of Tyr114. AA range:80-129

**Specificity** Phospho-Fhit (Y114) Polyclonal Antibody detects endogenous levels of Fhit protein only when phosphorylated at Y114.The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):SlyEE

## Target Information

**Gene name** FHIT  
**Protein Name** Bis(5'-adenosyl)-triphosphatase

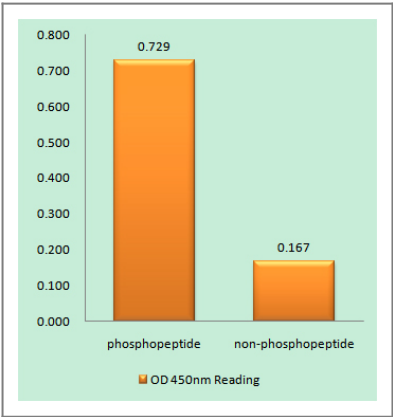
Organism	Gene ID	UniProt ID
Human	<a href="#">2272</a> ;	<a href="#">P49789</a> ;
Mouse		<a href="#">O89106</a> ;

**Cellular Localization** Cytoplasm . Mitochondrion . Nucleus .

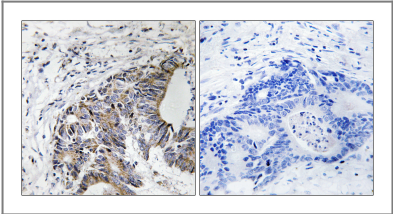
**Tissue specificity** Low levels expressed in all tissues tested. Phospho-FHIT observed in liver and kidney, but not in brain and lung. Phospho-FHIT undetected in all tested human tumor cell lines.

**Function** Catalytic activity:P(1)-P(3)-bis(5'-adenosyl) triphosphate + H(2)O = ADP + AMP.,cofactor:Divalent cations. Magnesium, but manganese and to a lesser extent calcium or cobalt can be substituted; but not zinc, cadmium or nickel.,Disease:A chromosomal aberration involving FHIT is observed in early onset bilateral and multifocal clear cell renal carcinoma [MIM:144700]. Translocation t(3;8) (3p14.2).,Disease:Associated with digestive tract cancers. Numerous tumor types are found to have aberrant forms of FHIT protein due to deletions in a coding region of chromosome 3p14.2 including the fragile site locus FRA3B.,Function:Cleaves A-5'-PPP-5'A to yield AMP and ADP. Possible tumor suppressor for specific tissues.,mass spectrometry: PubMed:15007172,similarity:Contains 1 HIT domain.,subunit:Homodimer.,tissue specificity:Low levels expressed in all tissues tested. Phospho-FHIT observed in liver and kidney, but not in brain and lung. Phospho-FHIT undetected in all tested human tumor cell lines.,

## Validation Data



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using FHIT (Phospho-Tyr114) Antibody



Immunohistochemistry analysis of paraffin-embedded human colon carcinoma, using FHIT (Phospho-Tyr114) Antibody. The picture on the right is blocked with the phospho peptide.

## | Contact information

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Please scan the QR code  
to access additional  
product information:

**Fhit (Phospho  
Tyr114) Rabbit pAb**

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[Antibody](#) | [ELISA Kits](#) | [Protein](#) | [Reagents](#)