

FICD Rabbit pAb

CatalogNo: YN8129

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- WB

MW

- 50kD (Calculated)

Isotype

- IgG

Recommended Dilution Ratios

WB 1:500-2000

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 Synthesized peptide derived from human FICD

Specificity This antibody detects endogenous levels of FICD at Human, Mouse, Rat

Target Information

Gene name FICD HIP13 HYPE UNQ3041/PRO9857

Protein Name Adenosine monophosphate-protein transferase FICD (AMPylator FICD) (FIC domain-containing protein) (Huntingtin yeast partner E) (Huntingtin-interacting protein 13) (HIP-13) (Huntingtin-interacting protein E)

Organism	Gene ID	UniProt ID
Human	11153 ;	Q9BVA6 ;
Mouse	231630 ;	Q8BIX9 ;
Rat	288741 ;	Q6AY47 ;

Cellular Localization Endoplasmic reticulum membrane ; Single-pass type II membrane protein .

Tissue specificity Ubiquitous.

Function Protein that can both mediate the addition of adenosine 5'-monophosphate (AMP) to specific residues of target proteins (AMPylation), and the removal of the same modification from target proteins (de-AMPylation), depending on the context (By similarity). The side chain of Glu-231 determines which of the two opposing activities (AMPylase or de-AMPylase) will take place (By similarity). Acts as a key regulator of the ERN1/IRE1-mediated unfolded protein response (UPR) by mediating AMPylation or de-AMPylation of HSPA5/BiP . In unstressed cells, acts as an adenylyltransferase by mediating AMPylation of HSPA5/BiP at 'Thr-518', thereby inactivating it (By similarity). In response to endoplasmic reticulum stress, acts as a phosphodiesterase by mediating removal of ATP (de-AMPylation) from HSPA5/BiP at 'Thr-518', leading to restore HSPA5/BiP activity (By similarity). Although it is able to AMPylate RhoA, Rac and Cdc42 Rho GTPases in vitro, Rho GTPases do not constitute physiological substrates .

Validation Data

Contact information

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FICD Rabbit pAb

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