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FICD antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI12719

Specification

FICD antibody - C-terminal region - Product Information

Application	**IHC, WB**
Primary Accession	Q9BVA6
Other Accession	NM_007076, NP_009007
Reactivity	**Human, Mouse, Rat, Pig, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**52kDa KDa**

FICD antibody - C-terminal region - Additional Information

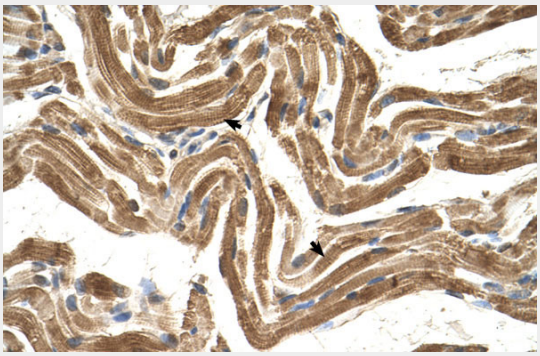
Gene ID 11153

Alias Symbol	**HYPE, MGC5623, UNQ3041, hip13, HIP13**

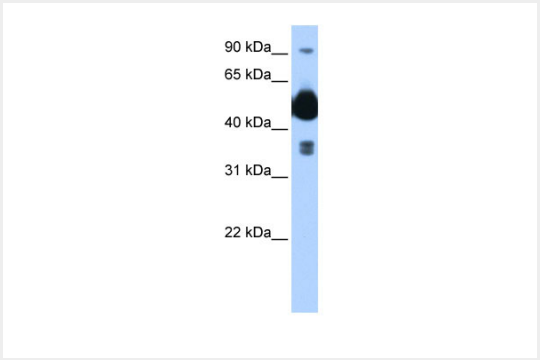
Other Names
Adenosine monophosphate-protein transferase FICD, 2.7.7.n1, AMPylator FICD, FIC domain-containing protein, Huntingtin yeast partner E, Huntingtin-interacting protein 13, HIP-13, Huntingtin-interacting protein E, FICD, HIP13, HYPE

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-FICD antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.



Human Muscle



WB Suggested Anti-FICD Antibody Titration: 0.2-1 µg/ml
Positive Control: Transfected 293T

FICD antibody - C-terminal region - References

Clark,H.F.,(2003)GenomeRes.13(10),2265-2270ReconstitutionandStorage:Forshorttermuse,storeat2-8Cupto1week.Forlongtermstorage,storeat-20Cinsmallaliquotstopreventfreeze-thawcycles.

Precautions
FICD antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

FICD antibody - C-terminal region - Protein Information

Name FICD (HGNC:18416)

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 (PubMed:25601083). 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 (PubMed:19362538, PubMed:25601083).

Cellular Location
Endoplasmic reticulum membrane; Single-pass type II membrane protein

Tissue Location
Ubiquitous..

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Protocols

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

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