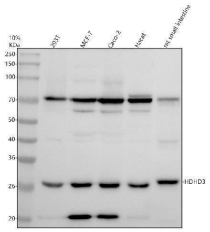
HDHD3 Antibody / Haloacid dehalogenase-like hydrolase domain-containing protein 3 Antibody (FY13553)

Catalog No.	Formulation	Size
FY13553	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9BSH5
Applications	Western blot: 0.5-1ug/ml ELISA: 0.1-0.5 ug/ml
Limitations	For research use only, this HDHD3 Antibody / Haloacid dehalogenase-like hydrolase domain-containing protein 3 Antibody is not intended for diagnostic or therapeutic use.



HDHD3 Antibody by WB in human cells and rat intestine. Western blot analysis using Haloacid dehalogenase-like hydrolase domain-containing protein 3 Antibody detects an immunoreactive band near 28 kDa in human 293T (lane 1), MCF-7 (lane 2), Caco-2 (lane 3) and HaCaT (lane 4) cell lysates and rat small intestine (lane 5). The observed migration agrees with the calculated molecular weight of approximately 28 kDa. Reduced samples containing 30 ug protein per lane were separated by 10% SDS-PAGE and transferred to nitrocellulose. Membranes were incubated with primary antibody at 0.5 ug/mL overnight at 4oC and developed using HRP-conjugated secondary antibody and chemiluminescence.

Description

HDHD3 Antibody / Haloacid dehalogenase-like hydrolase domain-containing protein 3 Antibody detects HDHD3, a member of a broad protein superfamily characterized by related catalytic domain architectures. The haloacid dehalogenase, or HAD, superfamily includes enzymes that act on a variety of phosphorylated substrates. Although family membership can suggest a general biochemical framework, it does not establish the precise physiological substrate or reaction catalyzed by an individual protein. HDHD3 remains less extensively characterized than many well-studied metabolic enzymes.

HAD-like domains commonly contain conserved residues involved in phosphoryl-transfer chemistry, and members of the family participate in diverse aspects of cellular metabolism. Their activities can differ considerably according to substrate recognition, localization, and regulatory partners. For HDHD3, the distinction between predicted catalytic capability and experimentally demonstrated activity is important. A domain-based annotation should not be treated as proof of a particular metabolic pathway or cellular function without supporting biochemical studies.

Characterization of HDHD3 can contribute to a more complete understanding of the diversity of HAD-superfamily proteins. Defining its molecular interactions and biochemical preferences may help clarify whether it contributes to a specialized metabolic process or a broader regulatory system. Such work also illustrates the limitations of inferring precise functions from conserved protein folds alone. NSJ Bioreagents includes HDHD3 among its protein targets. An HDHD3 Antibody relates to the study of HAD-like protein families, enzymatic diversity, and the molecular organization of cellular metabolism.

Explore related research targets in our Metabolism Antibody / Metabolism Antibodies collection.

Application Notes

The ideal working dilution for the HDHD3 Antibody / Haloacid dehalogenase-like hydrolase domain-containing protein 3 Antibody should be established by the investigator based on assay conditions.

Immunogen

The HDHD3 Antibody was generated using e. coli-derived human HDHD3 recombinant protein (amino acids M1-E245).

Storage

After reconstitution, keep the HDHD3 Antibody at 4oC for up to one month. Alternatively, store aliquots at -20oC for up to six months. Avoid multiple freezing and thawing cycles.

Alternate Names

HDHD3 antibody, Haloacid dehalogenase-like hydrolase domain-containing protein 3 antibody, haloacid dehalogenase like hydrolase domain containing 3 antibody, C9orf158 antibody, HDHD3 rabbit polyclonal antibody

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