Human/Mouse/Rat PDHX Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF6014

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat PDHX in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human PDHX aa 387-501 Accession # P15374
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

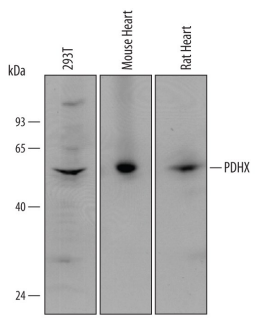
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human, Mouse, and Rat PDHX by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line, mouse heart tissue, and rat heart tissue. PVDF Membrane was probed with 1 µg/mL of Goat Anti-Human/Mouse/Rat PDHX Polyclonal Antibody (Catalog # AF6014) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for PDHX at approximately 55 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** • 12 months from date of receipt, -20 to -70 °C as supplied. • 1 month, 2 to 8 °C under sterile conditions after reconstitution. • 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

UCH-L3 (Ubiquitin carboxyterminal hydrolase isozyme 3) is a 26-28 kDa member of the peptidase C12 family of enzymes. It shows wide expression, being noted in adipocytes, renal duct epithelium, neurons, and striated muscle. UCH-L3 cleaves both monomeric ubiquitin (Ub) from Ub-protein conjugates, and a GGLRQ peptide from the C-terminus of the Ub-like protein NEDD-8. Notably, UCH-L3 activity is muted in the presence of Ub interacting dimers. Human UCH-L3 is 230 amino acids (aa) in length. It is phosphorylated on Ser75 and Ser130, and contains two ubiquitin-binding sequences between aa 40-57 and 178-186. Four potential splice forms have been reported. Two show a four aa deletion between aa 15-18, with one also containing a 14 aa substitution for aa 179 - 230. Two others contain an alternative start site at Met37, one of which is also accompanied by a seven aa substitution for aa 143-230. Full-length human UCH-L3 shares 98% aa identity with mouse and rat UCH-L3.

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