Human/Mouse/Rat UCH-L3 Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6008

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human, mouse, and rat UCH-L3 in Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human UCH-L3 Glu2-Ala230 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 as a 0.2 µm filtered solution in PBS.

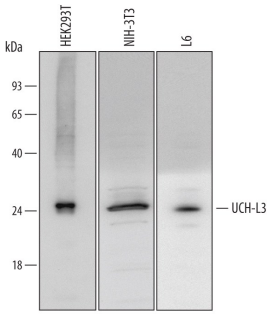
APPLICATIONS

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	0.5 µg/mL	See Below

DATA

Western Blot



Detection of Human, Mouse, and Rat UCH-L3 by Western Blot. Western blot shows lysates of HEK293 human embryonic kidney cell line, NIH-3T3 mouse embryonic fibroblast cell line, and L6 rat myoblast cell line. PVDF Membrane was probed with 0.5 µg/mL of Sheep Anti-Human/Mouse/Rat UCH-L3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF6008) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for UCH-L3 at approximately 26 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2X.

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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