

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human UCH-L3 in direct ELISAs. In direct ELISAs and Western blots, no cross-reactivity with recombinant human UCH-L1 is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 677710
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant human UCH-L3 Glu2-Ala230 Accession # P15374
Conjugate	Alexa Fluor 594 Excitation Wavelength: 590 nm Emission Wavelength: 617 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Western Blot	Optimal dilution of this antibody should be experimentally determined.
Immunoprecipitation	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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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