

## DESCRIPTION

|                           |                                                                                                                                                                                                                                                                             |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b> | Human                                                                                                                                                                                                                                                                       |
| <b>Specificity</b>        | Detects human UCH-L3 in direct ELISAs. In direct ELISAs and Western blots, no cross-reactivity with recombinant human UCH-L1 is observed.                                                                                                                                   |
| <b>Source</b>             | Monoclonal Mouse IgG <sub>1</sub> Clone # 677710                                                                                                                                                                                                                            |
| <b>Purification</b>       | Protein A or G purified from hybridoma culture supernatant                                                                                                                                                                                                                  |
| <b>Immunogen</b>          | <i>E. coli</i> -derived recombinant human UCH-L3<br>Glu2-Ala230<br>Accession # P15374                                                                                                                                                                                       |
| <b>Conjugate</b>          | Alexa Fluor 350<br>Excitation Wavelength: 346 nm<br>Emission Wavelength: 442 nm                                                                                                                                                                                             |
| <b>Formulation</b>        | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide<br><br>*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.

|                            |                                                                        |
|----------------------------|------------------------------------------------------------------------|
| <b>Western Blot</b>        | Optimal dilution of this antibody should be experimentally determined. |
| <b>Immunoprecipitation</b> | Optimal dilution of this antibody should be experimentally determined. |

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | 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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