# Human/Mouse/Rat UCH-L1/PGP9.5 Alexa Fluor® 532-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF6007X
100 µg

## DESCRIPTION

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| **Species Reactivity** | Human/Mouse/Rat |
| **Specificity** | Detects human, mouse, and rat UCH-L1/PGP9.5 in direct ELISAs and Western blots. |
| **Source** | Polyclonal Sheep IgG |
| **Purification** | Antigen Affinity-purified |
| **Immunogen** | *E. coli*-derived recombinant human UCH-L1/PGP9.5<br>Gln2-Ala223<br>Accession # P09936 |
| **Conjugate** | Alexa Fluor 532<br>Excitation Wavelength: 534 nm<br>Emission Wavelength: 553 nm |
| **Formulation** | 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.*

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

## PREPARATION AND STORAGE

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| **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

Deubiquitination is a critical regulatory process in the ubiquitin-proteasome pathway (1). Ubiquitin C-terminal hydrolases (UCHs) are a family of cysteine proteases that catalyze the hydrolysis of a peptide bond at the C-terminal glycine of ubiquitin. Members of the UCH family have been implicated in a number of human diseases, including neurodegenerative diseases and cancers (2). Mutations of the UCH-L1 gene and alterations of the protein activity have been found to be associated with several neurodegenerative disorders, including Parkinson's, Huntington's and Alzheimer's diseases (3). It is also implicated in cancer tumorigenesis, including lung, breast, liver, kidney, colorectal and ovarian cancers (4-8). UCH-L1 is thought to be a tumor suppressor and biomarker for hepatocellular carcinoma and other digestive tumors.

## PRODUCT SPECIFIC NOTICES

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