

DESCRIPTION

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	<i>E. coli</i> -derived recombinant human UCH-L1/PGP9.5 Gln2-Ala223 Accession # P09936
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 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.

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

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.

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