

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse USP2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 100% cross-reactivity with recombinant human USP2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse USP2 isoform 2 Lys47-Met396 Accession # NP_932759
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.
Immunocytochemistry	Optimal dilution of this antibody should be experimentally determined.
Immunohistochemistry	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

USP2 (Ubiquitin-specific-processing protease 2; also Ubiquitin carboxy-terminal hydrolase 2) is a cytosolic member of the peptidase C19 family of enzymes. It is widely expressed and serves to deubiquitinate select target substrates. USP2 effects are determined by its targets. In cells where it increases Mdm2, p53 is degraded and apoptosis is blocked. In cells where it increases Itch concentration, Flip activity is interrupted and apoptosis is promoted. USP2 is reported to form homo-oligomers. There are at least two isoform variants. Each is approximately 70 kDa in size, with one showing a 266 aa, and another a 272 aa substitution for aa 1-49. Over aa 47-396, mouse USP2 shares 96% and 99% aa identity with human and rat USP2, respectively.

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