

DESCRIPTION

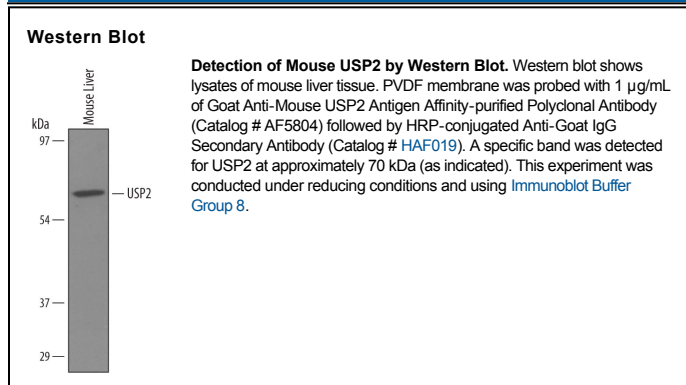
Species Reactivity	Mouse
Specificity	Detects mouse USP2 in direct ELISAs and Western blots. In direct ELISAs and Western blots, 100% cross-reactivity with recombinant human USP2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant mouse USP2 isoform 2 Lys47-Met396 Accession # NP_932759
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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.

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.