

USP1 Recombinant antibody

Catalog Number: 86453-1-RR

Basic Information

Catalog Number:

86453-1-RR

Concentration:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG5686

GenBank Accession Number:

BC050525

GeneID (NCBI):

7398

UNIPROT ID:

O94782

Full Name:

ubiquitin specific peptidase 1

Calculated MW:

88 kDa

Observed MW:

110 kDa, 100 kDa

Purification Method:

Protein A purification

CloneNo.:

251219E10

Recommended Dilutions:

WB: 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : HeLa cells, HepG2 cells, HEK-293 cells, A431 cells, A20 cells, NIH/3T3 cells, HSC-T6 cells

Background Information

USP1 (Ubiquitin carboxyl-terminal hydrolase 1) is a negative regulator of DNA damage repair which specifically deubiquitinates monoubiquitinated FANCD2. It is also involved in PCNA-mediated translesion synthesis (TLS) by deubiquitinating monoubiquitinated PCNA. This protein, which consists of 785 amino acids with a deduced molecular mass of 88.2 kDa, possesses His and Cys domains that are highly conserved in all members of the ubiquitin-specific processing (UBP) family of proteases (PMID: 9806842). The USP1 enzyme can undergo autocleavage, resulting in a 100 kDa N-terminal fragment and a 14 kDa C-terminal fragment (PMID: 18082604).

Storage

Storage:

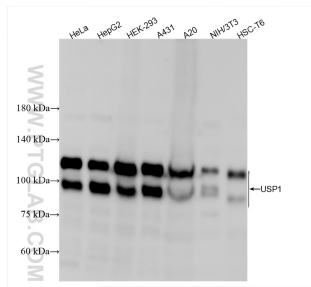
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

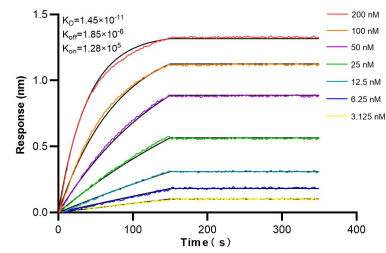
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86453-1-RR (USP1 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86453-1-RR against Human USP1 were performed. The affinity constant is 14.5 pM.