

For Research Use Only

USP1 Recombinant antibody, PBS Only

Catalog Number: 86453-1-PBS



Basic Information

Catalog Number: 86453-1-PBS	GenBank Accession Number: BC050525	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 7398	CloneNo.: 251219E10
Source: Rabbit	UNIPROT ID: O94782	
Isotype: IgG	Full Name: ubiquitin specific peptidase 1	
Immunogen Catalog Number: AG5686	Calculated MW: 88 kDa	
	Observed MW: 110 kDa, 100 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

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

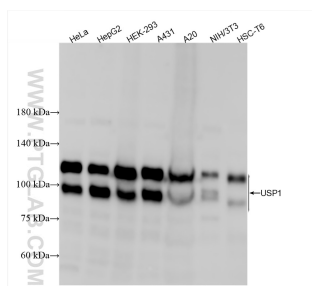
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

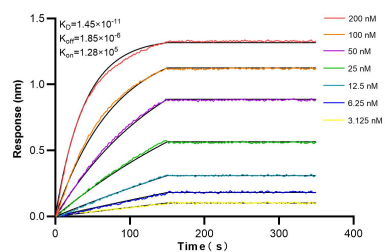
For technical support and original validation data for this product please contact:
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Selected Validation Data



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. This data was developed using the same antibody clone with 86453-1-PBS in a different storage buffer formulation.



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