

USP1 Polyclonal Antibody

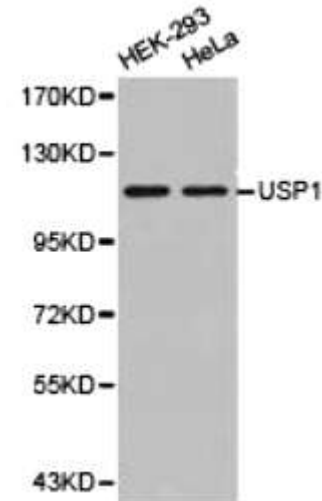
ALTERNATE NAMES:	USP1, UBP
CATALOG NO:	6140-100
AMOUNT:	100 µl
HOST:	Rabbit
ISOTYPE:	IgG
IMMUNOGEN:	Fusion protein of human USP1
PURIFICATION:	Affinity purified
MOLECULAR WEIGHT:	88 kDa
FORM:	Liquid
FORMULATION:	100 µl of antibody in PBS containing 0.02% sodium azide, 50% glycerol, pH 7.3
SPECIES REACTIVITY:	Human, Mouse, Rat
STORAGE CONDITIONS:	Can be stored at -20°C or -80°C. Avoid repeated freeze/thaw cycles.

DESCRIPTION: Ubiquitinating enzymes (UBEs) catalyze protein ubiquitination, a reversible process countered by deubiquitinating enzymes (DUB) action. There are five DUB subfamilies including the USP, UCH, OTU, MJD, and JAMM enzymes. USP1 belongs to the USP subfamily and is regulated in a cell cycle dependent manner by both transcriptional and ubiquitin-proteosomal mechanisms. USP1 is a nuclear protein and localizes to chromatin where it is specifically associated with FANCD2. USP1 deubiquitinates monoubiquitinated FANCD2, which plays an important role in DNA damage repair and Chk1 protein stability. USP1 deubiquitinates monoubiquitinated PCNA, thereby negatively regulating PCNA-mediated translation synthesis (TLS) during DNA repair. USP1 interaction with UAF1, a WD40 repeat containing protein, leads to formation of an activated USP1/UAF1 complex, which is required for the deubiquitinase activity of USP1.

SPECIFICITY: Cross reacts with human, mouse and rat samples.

APPLICATION: Western blot: 1:200 – 1:500 dilution, IHC: 1:50 - 1:100 dilution

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user



WB of HEK-293 and HeLa cell lysates with USP1 pAb.

RELATED PRODUCTS:

- USP2 Polyclonal Antibody (Cat. No. 6141-100)
- USP3 Polyclonal Antibody (Cat. No. 6142-100)
- USP25 Polyclonal Antibody (Cat. No. 6143-100)
- USP4 Polyclonal Antibody (Cat. No. 6131-50)
- USP5 Polyclonal Antibody (Cat. No. 6132-50)
- USP7 Polyclonal Antibody (Cat. No. 3747-100)
- USP8 Polyclonal Antibody (Cat. No. 6133-50)
- USP14 Polyclonal Antibody (Cat. No. 6134-50)
- USP15 Polyclonal Antibody (Cat. No. 6135-50)

FOR RESEARCH USE ONLY! Not to be used on humans.