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Datasheet for ABIN7174251
anti-USP1 antibody (AA 453-592) (Biotin)

Overview

Quantity:	100 µg
Target:	USP1
Binding Specificity:	AA 453-592
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP1 antibody is conjugated to Biotin
Application:	ELISA

Product Details

Immunogen:	Recombinant Human Ubiquitin carboxyl-terminal hydrolase 10 protein (453-592AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

Target Details

Target:	USP1
Alternative Name:	USP1 (USP1 Products)
Background:	Background: Hydrolase that can remove conjugated ubiquitin from target proteins such as p53/TP53, BECN1, SNX3 and CFTR. Acts as an essential regulator of p53/TP53 stability: in

Target Details

unstressed cells, specifically deubiquitinates p53/TP53 in the cytoplasm, leading to counteract MDM2 action and stabilize p53/TP53. Following DNA damage, translocates to the nucleus and deubiquitinates p53/TP53, leading to regulate the p53/TP53-dependent DNA damage response. Component of a regulatory loop that controls autophagy and p53/TP53 levels: mediates deubiquitination of BECN1, a key regulator of autophagy, leading to stabilize the PIK3C3/VPS34-containing complexes. In turn, PIK3C3/VPS34-containing complexes regulate USP10 stability, suggesting the existence of a regulatory system by which PIK3C3/VPS34-containing complexes regulate p53/TP53 protein levels via USP10 and USP13. Does not deubiquitinate MDM2. Deubiquitinates CFTR in early endosomes, enhancing its endocytic recycling. Involved in a TANK-dependent negative feedback response to attenuate NF-kappaB activation via deubiquitinating IKBKG or TRAF6 in response to interleukin-1-beta (IL1B) stimulation or upon DNA damage (PubMed:25861989).

Aliases: Deubiquitinating enzyme 10 antibody, KIAA0190 antibody, MGC124997 antibody, MGC2621 antibody, Ubiquitin carboxyl terminal hydrolase 10 antibody, Ubiquitin carboxyl-terminal hydrolase 10 antibody, Ubiquitin specific peptidase 10 antibody, Ubiquitin specific processing protease 10 antibody, Ubiquitin specific protease 10 antibody, Ubiquitin thioesterase 10 antibody, Ubiquitin thiolesterase 10 antibody, Ubiquitin-specific-processing protease 10 antibody, UBP10_HUMAN antibody, UBPO antibody, USP 10 antibody, USP10 antibody

UniProt: [Q14694](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Preservative: 0.03 % Proclin 300
Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C,-80 °C

Handling

Storage Comment: Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.