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Datasheet for ABIN388913 anti-USP22 antibody (N-Term)

1 Image

2 Publications



Overview

Quantity:	400 µL
Target:	USP22
Binding Specificity:	AA 1-30, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP22 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	This USP22 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1-30 amino acids from the N-terminal region of human USP22.
Clone:	RB4357
lsotype:	Ig Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	USP22
Alternative Name:	USP22 (USP22 Products)

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Target Details

Background:	Modification of target proteins by ubiquitin participates in a wide array of biological functions.
	Proteins destined for degradation or processing via the 26 S proteasome are coupled to
	multiple copies of ubiquitin. However, attachment of ubiquitin or ubiquitin-related molecules
	may also result in changes in subcellular distribution or modification of protein activity. An
	additional level of ubiquitin regulation, deubiquitination, is catalyzed by proteases called
	deubiquitinating enzymes, which fall into four distinct families. Ubiquitin C-terminal hydrolases,
	ubiquitin-specific processing proteases (USPs),1 OTU-domain ubiquitin-aldehyde-binding
	proteins, and Jab1/Pad1/MPN-domain-containing metallo-enzymes. Among these four
	families, USPs represent the most widespread and represented deubiquitinating enzymes
	across evolution. USPs tend to release ubiquitin from a conjugated protein. They display similar
	catalytic domains containing conserved Cys and His boxes but divergent N-terminal and
	occasionally C-terminal extensions, which are thought to function in substrate recognition,
	subcellular localization, and protein-protein interactions.
Molecular Weight:	59961
Gene ID:	23326

NCBI Accession:	NP_056091
UniProt:	Q9UPT9

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.

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Expiry Date:	6 months
Publications	
Product cited in:	Schwab, Sison, Meade, Broniowska, Corbett, Ebert: "Decreased Sirtuin Deacetylase Activity in
	LRRK2 G2019S iPSC-Derived Dopaminergic Neurons." in: Stem cell reports, Vol. 9, Issue 6, pp
	1839-1852, (2018) (PubMed).
	Takumida, Takumida, Katagiri, Anniko: "Localization of sirtuins (SIRT1-7) in the aged mouse
	inner ear." in: Acta oto-laryngologica, pp. 1-12, (2015) (PubMed).
	He, Hu, Shi, Weidert, Lu, Xu, Huang, Kelley, Xie: "Activation of the aryl hydrocarbon receptor
	sensitizes mice to nonalcoholic steatohepatitis by deactivating mitochondrial sirtuin
	deacetylase Sirt3." in: Molecular and cellular biology , Vol. 33, Issue 10, pp. 2047-55, (2013) (
	PubMed).

Kamarajan, Alhazzazi, Danciu, Dsilva, Verdin, Kapila: "Receptor-interacting protein (RIP) and Sirtuin-3 (SIRT3) are on opposite sides of anoikis and tumorigenesis." in: **Cancer**, Vol. 118, Issue 23, pp. 5800-10, (2012) (PubMed).

Parker, Vazquez-Manrique, Tourette, Farina, Offner, Mukhopadhyay, Orfila, Darbois, Menet, Tissenbaum, Neri: "Integration of ?-catenin, sirtuin, and FOXO signaling protects from mutant huntingtin toxicity." in: **The Journal of neuroscience : the official journal of the Society for Neuroscience**, Vol. 32, Issue 36, pp. 12630-40, (2012) (PubMed).



Western Blotting

Image 1. All lanes : Anti-USP22 Antibody (S71) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: NCI- whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 60 kDa Blocking/Dilution buffer: 5 % NFDM/TBST.

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