

Datasheet for ABIN129593
anti-USP18 antibody (AA 40-49)[Go to Product page](#)

1 Image

Overview

Quantity:	100 µg
Target:	USP18
Binding Specificity:	AA 40-49
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This USP18 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding aa 40-49 of human UBP43 protein.
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	USP18
Alternative Name:	UBP43 (USP18 Products)
Background:	UBP43 (also known as ISG43, Ubl thiolesterase 18, ISG15-specific processing protease, 43 kDa ISG15-specific protease, ubiquitin specific protease 18 or USP18) is a member of the deubiquitinating protease family of enzymes, which removes ubiquitin adducts from a broad

Target Details

range of protein substrates. Deletion of the UBP43 gene in mouse leads to a massive increase of ISG15 conjugates in tissues indicating that UBP43 is a major ISG15-specific protease. UBP43 is the first ISG15-specific protease reported. Both ISG15 and UBP43 genes are known to be strongly induced by interferon, genotoxic stress, and viral infection. Thus UBP43 may be necessary to maintain a critical cellular balance of ISG15-conjugated proteins in both healthy and stressed organisms.

Synonyms: 3 kDa ISG15 specific protease antibody, EC 3.1.2. antibody, hUBP43 antibody, Interferon Stimulated Gene 43 kD antibody, ISG15 Specific Processing Protease antibody, ISG43 antibody, Ubiquitin Specific Peptidase 18 antibody

Gene ID:	11274, 32313610
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UniProt:	Q9UMW8
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Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA and by western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 43 kDa in size corresponding to UBP43 by western blotting in the appropriate cell lysate or extract.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
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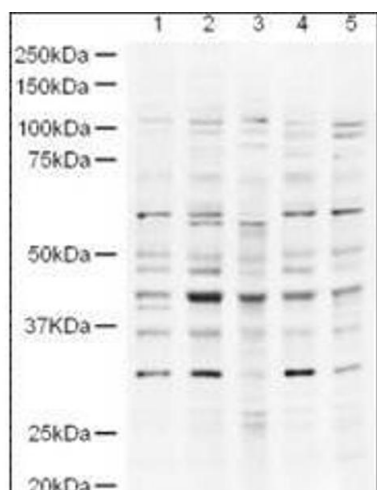
Concentration:	0.9 mg/mL
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Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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Preservative:	Sodium azide
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Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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Western Blotting

Image 1. Western blot using Affinity Purified anti-UBP43 antibody shows detection of a band ~43 kDa band (arrowhead) believed to be to UBP43 in lysates from HeLa nuclear extracts (lane 1) and whole cell lysates from HeLa (lane 2), A431 (lane 3, Jurkat (Lane 4) and HEK293 (lane 5). Approximately 18 μ g of each lysate was run on a SDS-PAGE and transferred onto nitrocellulose followed by reaction with a 1:500 dilution of anti-UBP43 antibody. Signal was detected using standard techniques. The strong band between the 37kD and 50kD markers is expected to be UBP43. The other bands are probably non-specific.