

Datasheet for 600-401-476**UBP43 Antibody****Overview**

Description:	Anti-UBP43 (RABBIT) Antibody - 600-401-476
Item No.:	600-401-476
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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 range of protein substrates. Deletion of the UB43 gene in mouse leads to a massive increase of ISG15 conjugates in tissues indicating that UB43 is a major ISG15-specific protease. UB43 is the first ISG15-specific protease reported. Both ISG15 and UB43 genes are known to be strongly induced by interferon, genotoxic stress, and viral infection. Thus UB43 may be necessary to maintain a critical cellular balance of ISG15-conjugated proteins in both healthy and stressed organisms.
Synonyms:	rabbit anti-UBP43 antibody, rabbit anti-USP18 antibody, rabbit anti-ISG43 antibody, 43 kDa ISG15 specific protease antibody, hUBP43 antibody, Interferon Stimulated Gene 43 kD antibody, ISG15 Specific Processing Protease antibody, ISG43 antibody, Ubiquitin Specific Peptidase 18 antibody, Ubl carboxyl-terminal hydrolase 18, Ubl thioesterase 18
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	USP18
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 25-50 of human UBP43 protein.
Purity/Specificity:	This affinity-purified antibody is directed against human UBP43 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human, chimpanzee and orangutan based on 100% homology for the immunogen sequence. The core 7 amino acid sequence QPRERPR of the 10 amino acid immunogen sequence may be reactive with UBP43 from mouse and dog. This core sequence also shows partial homology with proteins other than UBP43. Cross reactivity with UBP43 homologues from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9UMW8 • NCBI - 32313610 • GeneID - 11274

Application Details

Tested Applications:	ELISA, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:50,000
IF:	User Optimized
WB:	1:500 - 1:2,000

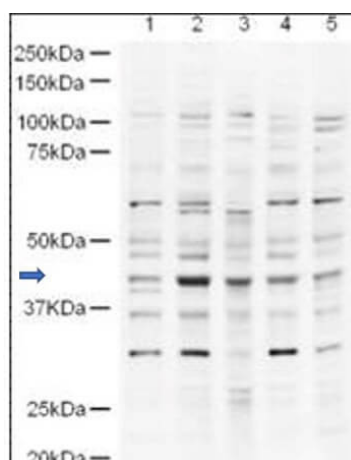
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.9 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot using Rockland's Affinity Purified anti-UBP43 antibody. Lane 1: HeLa nuclear extracts (p/n W09-001-367). Lane 2: HeLa whole cell lysates (W09-000-364). Lane 3: A431 whole cell lysates (p/n W09-000-361). Lane 4: Jurkat whole cell lysates (W09-001-370). Lane 5: HEK293 whole cell lysates (p/n W09-000-365). Load: 18 µg. Primary Antibody: anti-UBP43 at 1:500. Shows detection of a band ~43 kDa band (arrowhead) believed to be UB43 in lysates. The strong band between the 37kD and 50kD markers is expected to be UB43. The other bands are probably non-specific.

Disclaimer

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