

Datasheet: AHP1154

Description:	RABBIT ANTI HUMAN USP2
Specificity:	USP2
Other names:	UBP41
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			1 - 5ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.

Target Species	Human
Product Form	Purified IgG - liquid
Antiserum Preparation	Antisera to USP2 were raised by repeated immunisations of rabbit with highly purified antigen. Purified IgG prepared by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Synthetic peptide corresponding to an internal domain of human USP2-conjugated to KLH.

**External Database
Links**

UniProt:

[O75604](#) [Related reagents](#)

Entrez Gene:

[9099](#) USP2 [Related reagents](#)

Synonyms

UBP41

Specificity

Rabbit anti Human USP2 antibody detects an epitope within the internal region of human ubiquitin specific protease 2 (USP2), also known as UBP41. USP2 is a deubiquitinating protease which rescues proteins from the ubiquitin mediated 26S proteasomal pathway. The USP2 gene encodes two splice variants- USP2a and USP2b, with molecular weights of ~69 kDa and ~48 kDa respectively.

USP2a deubiquitinates the antiapoptotic proteins fatty acid synthase (FAS) and Mdm2. FAS is overexpressed in the majority of epithelial tumors, including prostate cancer, whilst Mdm2 indicates that USP2 may regulate p53-dependent pathways.

**Histology Positive
Control Tissue**

Skeletal muscle.

Further Reading

1. Stevenson, L.F. *et al.* (2007) The deubiquitinating enzyme USP2a regulates the p53 pathway by targeting Mdm2. [EMBO J. 26 \(4\): 976-86.](#)
2. Priolo, C. *et al.* (2006) The isopeptidase USP2a protects human prostate cancer from apoptosis. [Cancer Res. 66 \(17\): 8625-32.](#)
3. Graner, E. *et al.* (2004) The isopeptidase USP2a regulates the stability of fatty acid synthase in prostate cancer. [Cancer Cell. 5 \(3\): 253-61.](#)
4. Gewies, A. & Grimm, S. (2003) UBP41 is a proapoptotic ubiquitin-specific protease. [Cancer Res. 63 \(3\): 682-8.](#)

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

18 months from date of despatch.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (2AB02...)

[Biotin](#)

Sheep Anti Rabbit IgG (STAR36...)

[DyLight@488](#), [DyLight@549](#), [DyLight@649](#),
[DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[HISTAR DETECTION SYSTEM \(STAR3000A\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000B\)](#)

[HISTAR DETECTION SYSTEM \(STAR3000C\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025C\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M318762:180719'

Printed on 01 Aug 2018

© 2018 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)