

Datasheet for 600-401-FV6**USP25 Antibody****Overview**

Description:	Anti-USP25 (RABBIT) Antibody - 600-401-FV6
Item No.:	600-401-FV6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	USP25 (ubiquitin specific peptidase 25), also known as USP21, belongs to the peptidase C19 family and is a highly conserved 76-amino acid protein involved in regulation of intracellular protein breakdown, cell cycle regulation, and stress response (1). It contains one UBA-like domain and two UIM (ubiquitin-interacting motif) repeats. Due to alternative splicing events, USP25 is expressed as two short, ubiquitously expressed isoforms and one long, muscle-specific isoform (2). The long isoform of USP25 (USP25m) is upregulated in myogenesis and is implicated in regulation of muscular differentiation and function. USP25 is a deubiquitinating enzyme (DUB) that negatively regulates IL-17-triggered signaling (3,4).
Synonyms:	USP25 Antibody, USP21, USP21, Ubiquitin carboxyl-terminal hydrolase 25, Deubiquitinating enzyme 25
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	USP25
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-USP25 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 17 amino acid peptide near the internal region of human USP25.

Purity/Specificity:	Anti-USP25 antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. USP25 antibody is human and mouse reactive. Multiple isoforms of USP25 are known to exist.
Relevant Links:	• UniProtKB - Q9UHP3 • GeneID - 29761 • NCBI - NP_001269970.1

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-USP25 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 122 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
IHC:	5 µg/mL
WB:	1-2 µg/mL

Formulation

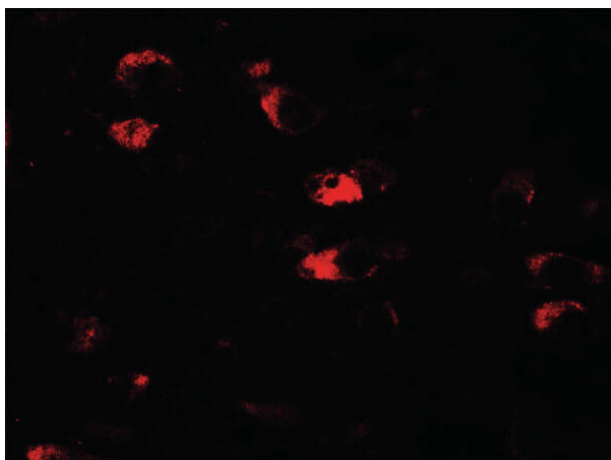
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

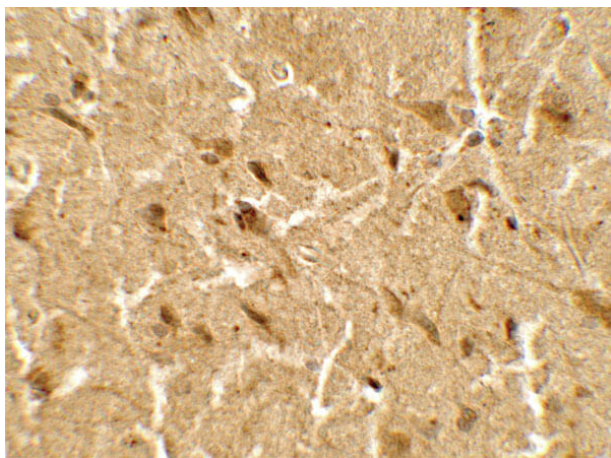
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

Expiration:

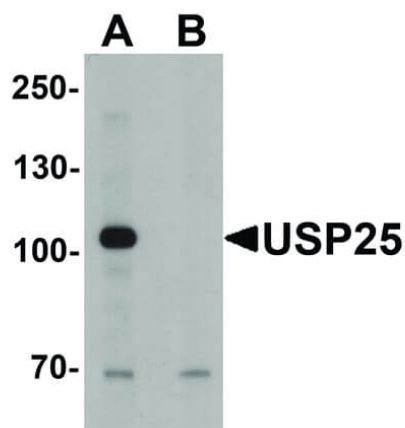
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of Rabbit anti-USP25 antibody. Tissue: human brain. Primary antibody: USP25 antibody at 20 $\mu\text{g/mL}$. Secondary antibody: Fluorescein rabbit secondary antibody at 1:5,000. Localization: USP25 is cytoplasmic and nuclear. Staining: USP25 as red fluorescent signal.

**Immunohistochemistry**

Immunohistochemistry of Rabbit anti-USP25 antibody. Tissue: human brain tissue. Primary antibody: USP25 antibody at 5 $\mu\text{g/mL}$. Secondary antibody: Peroxidase rabbit secondary antibody at 1:5,000. Localization: USP25 is cytoplasmic and nuclear. Staining: USP25 as precipitated brown signal.

**Western Blot**

Western Blot of Rabbit anti-USP25 antibody. Lane A: mouse brain tissue lysate in absence of blocking peptide. Lane B: mouse brain tissue lysate in presence of blocking peptide. Primary antibody: USP25 antibody at 1 µg/mL overnight at 4°C. Secondary antibody: Goat Anti-Rabbit HRP secondary antibody. Block: 5% BLOTTO. Predicted/Observed size: 116 kDa, 105 kDa for USP25.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.