





# Ubiquitin Polyclonal Antibody

Catalog Number PA3-16717

Product		-1
	C1CD	Chaat

Details		Species Reactivity	
Size	50 μL	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Yeast, Mouse
Class	Polyclonal	Tested Applications	Dilution *
Туре	Antibody	Immunohistochemistry (Frozen) (IHC (F))	1:500-1:1,000
Immunogen	Purified ubiquitin conjugated with glutaraldehyde to KLH	Immunohistochemistry (Paraffin) (IHC (P))	1:500-1:1,000
Conjugate	Unconjugated	Western Blot (WB)	1:5,000-1:10,000
Form	Liquid	in situ PLA (PLA)	Assay-Dependent
Concentration	Conc. Not Determined	Immunocytochemistry (ICC/IF)	1:500-1:1,000
Storage buffer	whole serum	Dublished Applications	
Contains	5mM sodium azide	Published Applications Western Blot (WB)	See 1 publications below
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C,	Immunohistochemistry (IHC)	See 1 publications below
	avoiding freeze/thaw cycles.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

### Background/Target Information

Ubiquitin, a highly conserved protein that has a major role in targeting cellular proteins for degradation by the 26S proteosome, is synthesized as a precursor protein consisting of either polyubiquitin chains or a single ubiquitin fused to an unrelated protein. This gene encodes a fusion protein consisting of ubiquitin at the N terminus and ribosomal protein S27a at the C terminus. When expressed in yeast, the protein is post-translationally processed, generating free ubiquitin monomer and ribosomal protein S27a. Ribosomal protein S27a is a component of the 40S subunit of the ribosome and belongs to the S27AE family of ribosomal proteins. It contains C4-type zinc finger domains and is located in the cytoplasm. Pseudogenes derived from this gene are present in the genome. As with ribosomal protein S27a, ribosomal protein L40 is also synthesized as a fusion protein with ubiquitin; similarly, ribosomal protein S30 is synthesized as a fusion protein with the ubiquitin-like protein fubi. Multiple alternatively spliced transcript variants that encode the same proteins have been identified.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

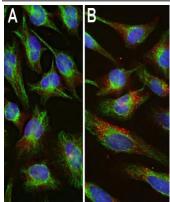
For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSINE REALED FOR ROCKETOR POR REFUNDED FOR ROPE OF REFUNDED FOR PROBLEMENT, BUYER'S EXCLUSIVE REALED FOR ROCKETOR FOR REFUNDED FOR ROPE OF REFUNDED FOR ROPE

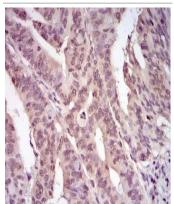


# **Product Images For Ubiquitin Polyclonal Antibody**



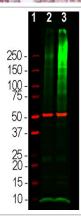
#### Ubiquitin Antibody (PA3-16717) in ICC/IF

Immunocytochemistry analysis of Ubiquitin in HeLa cells. Samples were incubated in Ubiquitin polyclonal antibody (Product # PA3-16717) using a dilution of 1:1000. Ubiquitin (red) costained with chicken pAb to vimentin, dilution 1: 10,000, in green. The blue is DAPI staining of nuclear DNA. [A] Control HeLa cells maintained in normal medium, [B] HeLa cells treated with 10 µM of the proteasome inhibitor lactacystin (Lc) for 24 hours. Proteasomal inhibition leads to formation of strongly ubiquitin positive cytoplasmic inclusions. Note the diffuse cytoplasmic ubiquitin staining in control cells and well defined ubiquitin positive inclusions in the Lc treated cells.



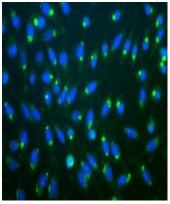
### Ubiquitin Antibody (PA3-16717) in IHC (P)

Immunohistochemical analysis of Ubiquitin in human rectal cancer. Samples were incubated in Ubiquitin polyclonal antibody (Product # PA3-16717) followed by DAB with hematoxylin counterstain.



#### Ubiquitin Antibody (PA3-16717) in WB

Western blot analysis of Ubiquitin in HEK293 cell lysates. Samples were incubated in Ubiquitin polyclonal antibody (Product # PA3-16717 using a dilution of 1:5000. Ubiquitin antibody and mouse beta-Tubulin antibody, dilution 1: 10000 (Red) used as a loading control. [1] protein standard (Red), [2] cells maintained in normal medium, [3] cells treated with proteasome inhibitor lactacystin (Lc) at 10 µM for 16 hours. Lysed cells were lysed and the lysate subjected to electrophoresis on a 4-20% SDS-PAGE gel, then electrophoretically transferred to PVDF membranes. The smear detected above the 200 kDa standard represents accumulations of ubiquitinated proteins in the Lc treated cells. The prominent band at ~8 kDa corresponds to monoubiquitin.



## Ubiquitin Antibody (PA3-16717) in ICC/IF

Immunocytochemistry analysis of Ubiquitin in aggresomes of mouse L-cells treated with lactacysteine. Samples were incubated in Ubiquitin polyclonal antibody (Product # PA3-16717).

or Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT, BUYER'S EXCLUSIVE REALED FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPLAY, REPLACED RETURN FOR REFULD FOR OR REFULD FOR OR REFULD FOR OR REFULD FOR A R



	For Ubiquitin Polyclonal Antibody
1 Western Blot Referen	ces
Species / Dilution	Summary
	PA3-16717 was used in Western Blotting to studiy the role of USP13 in knockout mice expressing lentiviral human alpha synuclein and investigate the impact of a small molecule inhibitor of USP13, BK50118-C, on alpha-synuclein pathology and animal behavior.
Mouse / 1:5000	International journal of molecular sciences ( 2022; 23: ) "Inhibition of Ubiquitin-Specific Protease-13 Improves Behavioral Performance in Alpha-Synuclein Expressing Mice." Author(s):Liu X,Balaraman K,Lynch CC,Hebron M,Shah PK,Hu S,Stevenson M,Wolf C,Moussa C PubMed Article URL:http://dx.doi.org/10.3390/ijms23158131
1 Immunohistochemist	ry References
Species / Dilution	Summary
	PA3-16717 was used in Immunohistochemistry to suggest that novel USP13 inhibitors improve neurodegenerative pathology via antagonism of de-ubiquitination, thus alleviating neurotoxic protein burden in neurodegenerative diseases.
Mouse / 1:5000	Metabolites (2021; 11:)  "Novel Ubiquitin Specific Protease-13 Inhibitors Alleviate Neurodegenerative Pathology."  Author(s):Liu X,Balaraman K,Lynch CC,Hebron M,Wolf C,Moussa C  PubMed Article URL:http://dx.doi.org/10.3390/metabo11090622

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation in the Buyer. Any model or sample furnished to Design is merely illustrated or the general type and quality of goods and does not represent that any Product will combined to substantially in the product in the product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Design is merely illustrated or the general type and quality of goods and does not not product will combine any other than the product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Design is merely illustrated to the product its subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Design is merely illustrated to the product its subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Design is merely illustrated to the product its subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Design in the product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the product is subjected to normal, proper and intended usage.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACE OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FALLT OR NEGLEGIENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DOES AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, or vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

