abcam

ab314066

Anti-UBQLN4/CIP75/Ubiquilin 4 antibody [BLR145J] - BSA free

Recombinant | KO Validated

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.8 - 8.6 Preservative: 0.09% Sodium azide Constituents: 98% Borate buffered saline
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Full Length Protein corresponding to Human UBQLN4. Database link Q9NRR5
Clone number	BLR145J

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

ICC

Tested

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	-
Notes	-

IP

Tested

Species	Human
Dilution info	-
Notes	-

WB

Tested

Species	Human
Dilution info	-
Notes	-

Target data

See full target information UBQLN4

Function	Regulator of protein degradation that mediates the proteasomal targeting of misfolded, mislocalized or accumulated proteins (PubMed:15280365, PubMed:27113755, PubMed:29666234, PubMed:30612738). Acts by binding polyubiquitin chains of target proteins via its UBA domain and by interacting with subunits of the proteasome via its ubiquitin-like domain (PubMed:15280365, PubMed:27113755, PubMed:30612738). Key regulator of DNA repair that represses homologous recombination repair: in response to DNA damage, recruited to sites of DNA damage following phosphorylation by ATM and acts by binding and

removing ubiquitinated MRE11 from damaged chromatin, leading to MRE11 degradation by the proteasome (PubMed:30612738). MRE11 degradation prevents homologous recombination repair, redirecting double-strand break repair toward non-homologous end joining (NHEJ) (PubMed:30612738). Specifically recognizes and binds mislocalized transmembrane-containing proteins and targets them to proteasomal degradation (PubMed:27113755). Collaborates with DESI1/POST in the export of ubiquitinated proteins from the nucleus to the cytoplasm (PubMed:29666234). Also plays a role in the regulation of the proteasomal degradation of non-ubiquitinated GJA1 (By similarity). Acts as an adapter protein that recruits UBQLN1 to the autophagy machinery (PubMed:23459205). Mediates the association of UBQLN1 with autophagosomes and the autophagy-related protein LC3 (MAP1LC3A/B/C) and may assist in the maturation of autophagosomes to autolysosomes by mediating autophagosome-lysosome fusion (PubMed:23459205).

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	Up to 12 months
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

REACH authorisation
Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances.
It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

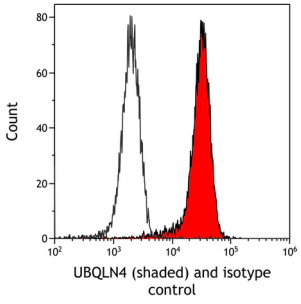
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

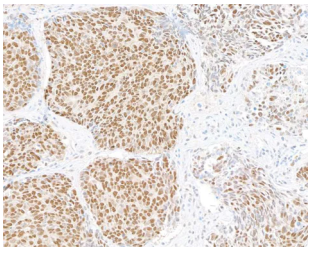
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5 product images



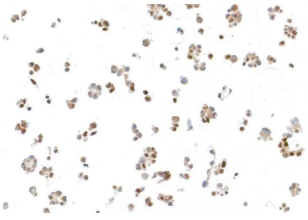
Flow Cytometry - Anti-UBQLN4/CIP75/Ubiquilin 4 antibody [BLR145J] - BSA free (ab314066)

Detection of human UBQLN4/CIP75/Ubiquilin 4 (shaded) in HeLa cells by flow cytometry. Antibody: Rabbit anti-UBQLN4 recombinant monoclonal antibody [BLR0145J] (A700-145) or isotype control (unshaded). Secondary: conjugated goat anti-rabbit IgG.



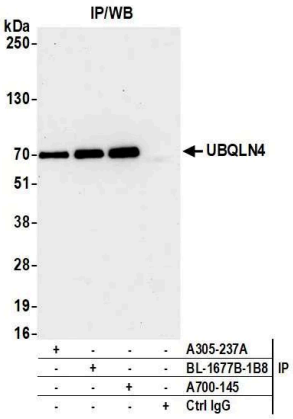
Immunohistochemistry - Anti-UBQLN4/CIP75/Ubiquilin 4 antibody [BLR145J] - BSA free (ab314066)

Detection of human UBQLN4 in FFPE lung carcinoma by immunohistochemistry. Antibody:Rabbit anti-UBQLN4 recombinant monoclonal antibody [BLR145J] Secondary:HRP-conjugated goat anti-rabbit IgG . Substrate:DAB.



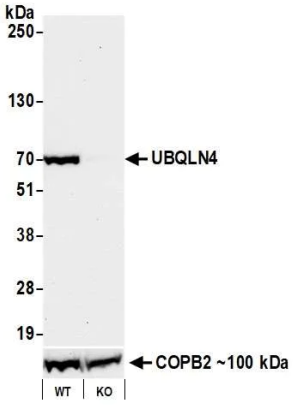
Immunocytochemistry - Anti-UBQLN4/CIP75/Ubiquilin 4 antibody [BLR145J] - BSA free (ab314066)

Detection of human UBQLN4 in FFPE Ovcar-4 cells by immunocytochemistry Antibody:Rabbit anti-UBQLN4 recombinant monoclonal antibody [BLR145J] Secondary:HRP-conjugated goat anti-rabbit IgG . Substrate:DAB.



Immunoprecipitation - Anti-UBQLN4/CIP75/Ubiquilin 4 antibody [BLR145J] - BSA free (ab314066)

Samples:Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies:Rabbit antiUBQLN4 recombinant monoclonal antibody [BLR145J] (A700-145 lot 1) used for IP at 20 µl/mg lysate. UBQLN4 was also immunoprecipitated by others rabbit anti-UBQLN4 antibodies (A305-237A and BL-1677B-1B8). For blotting immunoprecipitated UBQLN4, A700-145 was used at 1:1000. Chemiluminescence with an exposure time of 10 seconds.



Western blot - Anti-UBQLN4/CIP75/Ubiquilin 4 antibody [BLR145J] - BSA free (ab314066)

Samples: Whole cell lysate (50 µg) prepared using NETN buffer from MDA-MB-231 cells (WT and KO). Antibodies:Rabbit antiUBQLN4 recombinant monoclonal antibody [BLR145J] (A700-145 lot 1) used for WB at 1:1000. Secondary:HRPconjugated goat anti-rabbit IgG (A120-101P). Chemiluminescence with an exposure time of 30 seconds. Lower Panel: Rabbit anti-COPB2 antibody (A304-523A). (KO cells: Jachimowicz et al, Cell, 2019).
All lanes:
Western blot - Anti-UBQLN4/CIP75/Ubiquilin 4 antibody [BLR145J] - BSA free (ab314066) at 1/1000 dilution

Lane 1:
WT Whole cell lysate at 50 µg

Lane 2:
WT KO Whole cell lysate at 50 µg

Secondary

All lanes:
HRP-conjugated goat anti-rabbit IgG

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.