abcam

Product datasheet

Anti-UBE2C antibody ab3935

2 References 3 Images

Overview

Product name	Anti-UBE2C antibody
Description	Goat polyclonal to UBE2C
Tested applications	**Suitable for:** WB, IP, ICC
Species reactivity	**Predicted to work with:** Human
Immunogen	Synthetic peptide: QETYSKQVTSQEP, corresponding to C terminal amino acids 167-179 of Human UBE2C. Run BLAST with ExPASy Run BLAST with NCBI

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.02% Sodium Azide Constituents: 0.5% BSA, 5mg/ml Tris, pH 7.3
Purity	IgG fraction
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab3935** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

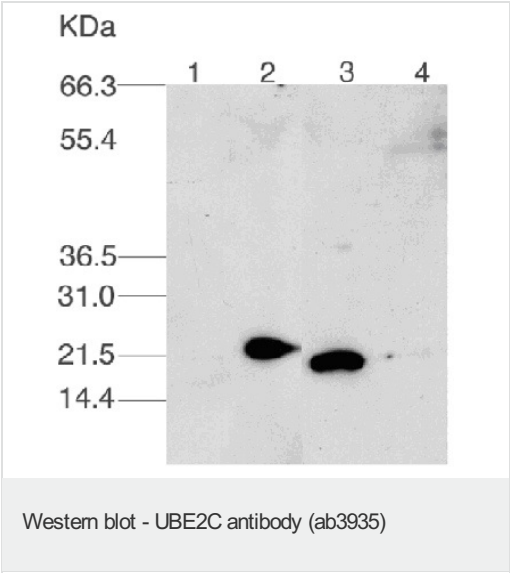
Application	Abreviews	Notes
WB		Use a concentration of 2.5 µg/ml. Detects a band of approximately 20 kDa (predicted molecular weight: 21.5 kDa).Can be blocked with Human UBE2C peptide (ab22967).
IP		Use at an assay dependent dilution. (See Abreview)

ICC	1/200. (See Abreview)

Target

Function	Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to other proteins. In vitro catalyzes 'Lys-11'- and 'Lys-48'-linked polyubiquitination. Acts as an essential factor of the anaphase promoting complex/cyclosome (APC/C), a cell cycle-regulated ubiquitin ligase that controls progression through mitosis. Acts by initiating 'Lys-11'-linked polyubiquitin chains on APC/C substrates, leading to the degradation of APC/C substrates by the proteasome and promoting mitotic exit.
Pathway	Protein modification; protein ubiquitination.
Sequence similarities	Belongs to the ubiquitin-conjugating enzyme family.
Post-translational modifications	Autoubiquitinated by the APC/C complex, leading to its degradation by the proteasome. Its degradation plays a central role in APC/C regulation, allowing cyclin-A accumulation before S phase entry. APC/C substrates inhibit the autoubiquitination of UBE2C/UBCH10 but not its E2 function, hence APC/C remaining active until its substrates have been destroyed.

Anti-UBE2C antibody images



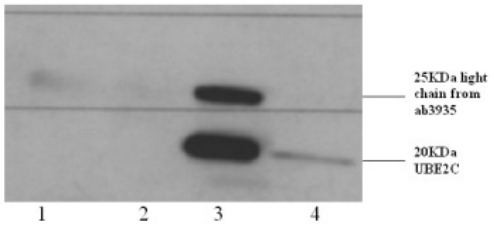
Western blot - UBE2C antibody (ab3935)

Predicted band size : 21.5 kDa

ab3935 at a 2.5µg/ml concentration staining approximately 20 kDa UBE2C by Western blot (ECL):

Lane 1 = pCDNA3 transfected U2OS whole cell lysate (2µl).
Lane 2 = pCDNA3 MycUbcH10 transfected whole cell lysate (2µl).
Lane 3 = Nocodazole arrested HeLa cell whole cell lysate (20µl).
Lane 4 = Asynchronous HeLa cell whole cell lysate (20µl).

For a more detailed description, please click the reviews tab at the top of the page and see the review dated 25/02/03.

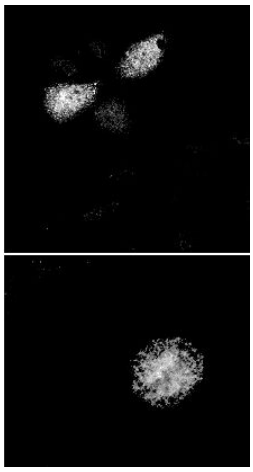


Immunoprecipitation - UBE2C antibody (ab3935)

ab3935 staining approximately 20 kDa human UBE2 after immmunoprecipitation from HeLa whole cell lysate (10^6 cells/ml) using 40µl of ab3935 saturated protein G dynabeads, by Western blot (ECL):

Lane 1 = IP from Noc arrested HeLa cell extract (beads only).
Lane 2 = IP from Noc arrested HeLa cell extract (goat whole serum coupled to beads).
Lane 3 = IP from Noc arrested HeLa cell extract (ab3935 coupled to beads)
Lane 4 = Noc arrested HeLa whole cell lysate.

For a more detailed description, please click the reviews tab at the top of the page and see the review dated 25/02/03.



Immunocytochemistry/ Immunofluorescence - UBE2C antibody (ab3935)

ab3935 at a 1/200 dilution staining human UBE2C in paraformaldehyde fixed HeLa cells by Immunocytochemistry. In the upper panel G2 phase cells can be seen (G1 cells stained only faintly). The lower panel shows a mitotic (metaphase) cell. Diffuse cytoplamic staining with some microtubule localisation can be observed in mitotic cells.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors