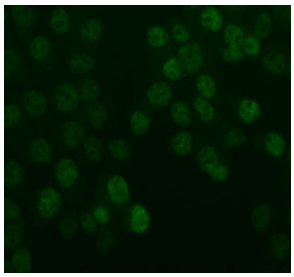
UBE2T Antibody / Ubiquitin-conjugating enzyme E2 T (FY12094)

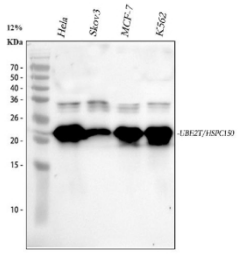
Catalog No.	Formulation	Size
FY12094	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml	100 ug

Bulk quote request

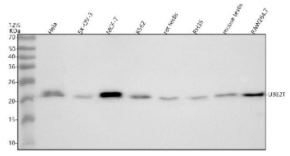
Availability	1-2 days
Species Reactivity	Human, Mouse, Rat
Format	Lyophilized
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Immunogen affinity purified
Buffer	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
UniProt	Q9NPD8
Applications	Western Blot : 0.25-0.5ug/ml Flow Cytometry : 1-3ug/million cells ELISA : 0.1-0.5ug/ml Immunofluorescence : 5ug/ml Immunprecipitation : 2ug per 500ug of lysate
Limitations	This UBE2T antibody is available for research use only.



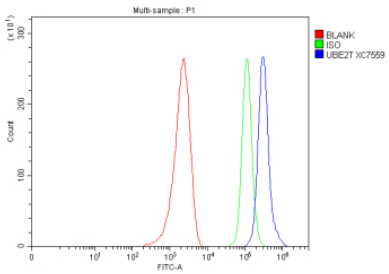
UBE2T Antibody MCF-7 Breast Cancer Cell IF. Immunofluorescent staining of human MCF-7 breast cancer cells demonstrates UBE2T expression following enzyme antigen retrieval for 15 minutes and blocking with 10% goat serum. Cells were incubated with UBE2T antibody at 5ug/ml overnight at 4Â°C, followed by DyLight 488-conjugated goat anti-rabbit IgG at 1:500 for 30 minutes at 37Â°C. Green fluorescence is observed predominantly in the nuclei of MCF-7 cells. This UBE2T Antibody, also called Ubiquitin-conjugating Enzyme E2 T Antibody, is useful for studies of ubiquitination, DNA damage responses, and cancer biology.



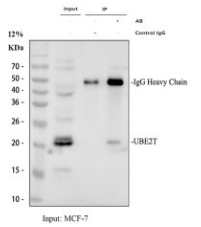
UBE2T Antibody Human Cancer Cell WB. Western blot analysis demonstrates UBE2T in human HeLa, SKOV3, MCF-7, and K562 cell lysates using UBE2T antibody at 1:1000. A strong band is detected at approximately 23 kDa, consistent with the expected molecular weight, with additional bands near 30 kDa potentially representing ubiquitinated forms of UBE2T. This UBE2T Antibody, also called Ubiquitin-conjugating Enzyme E2 T Antibody, supports studies of ubiquitination, DNA damage responses, and cancer biology.



UBE2T Antibody Human, Rat and Mouse WB. Western blot analysis demonstrates UBE2T in human HeLa, SK-OV-3, MCF-7 and K562 cells, rat testis and RH35 cells, and mouse testis and RAW264.7 cells. UBE2T antibody was used at 0.5 ug/ml, detecting a band at approximately 23 kDa, consistent with the expected molecular weight. This UBE2T Antibody, also called Ubiquitin-conjugating Enzyme E2 T Antibody, supports studies of ubiquitination, DNA damage responses, and protein regulation.



UBE2T Antibody MCF-7 Breast Cancer Cell FACS. Flow cytometry analysis of fixed and permeabilized human MCF-7 cells using UBE2T antibody at 1 ug/million cells. The blue histogram represents UBE2T staining, green represents the isotype control, and red represents unstained cells. The clear fluorescence shift demonstrates intracellular detection of UBE2T. This UBE2T Antibody, also called Ubiquitin-conjugating Enzyme E2 T Antibody, supports studies of ubiquitination, DNA damage responses, and breast cancer biology.



UBE2T Antibody MCF-7 Cell IP. Immunoprecipitation of UBE2T from human MCF-7 whole cell lysate using UBE2T antibody. Lane 1 contains input lysate, lane 2 is the rabbit IgG control, and lane 3 contains the UBE2T immunoprecipitate. Western blot detection at 0.5 ug/ml demonstrates a specific band at approximately 23 kDa, consistent with the expected molecular weight. This UBE2T Antibody, also called Ubiquitin-conjugating Enzyme E2 T Antibody, demonstrates immunoprecipitation of UBE2T from breast cancer cells.

Description

UBE2T antibody detects Ubiquitin-conjugating enzyme E2 T, encoded by the UBE2T gene. Ubiquitin-conjugating enzyme E2 T is a member of the E2 family of enzymes that catalyze the transfer of ubiquitin to target proteins, particularly in the context of the Fanconi anemia DNA repair pathway. UBE2T antibody provides researchers with a critical reagent for studying ubiquitin signaling, DNA repair, and cancer.

Ubiquitin-conjugating enzyme E2 T functions as the cognate E2 for FANCL, the E3 ligase of the Fanconi anemia core complex. Research using UBE2T antibody has shown that it is required for monoubiquitination of FANCD2 and FANCI, a critical step in the repair of DNA interstrand crosslinks. This activity ensures faithful DNA replication and genome stability.

Studies with UBE2T antibody have revealed that loss of UBE2T function causes Fanconi anemia, a rare genetic disorder characterized by bone marrow failure, congenital abnormalities, and cancer predisposition. Patient mutations in UBE2T impair its ubiquitin conjugating activity, preventing activation of FANCD2 and disrupting DNA repair. These findings emphasize the clinical importance of UBE2T in genome maintenance.

Beyond Fanconi anemia, dysregulation of Ubiquitin-conjugating enzyme E2 T has been associated with cancer progression. Research using UBE2T antibody has shown that overexpression promotes proliferation, survival, and

resistance to DNA-damaging therapies in breast, lung, and liver cancers. This suggests potential as both a biomarker and therapeutic target.

UBE2T antibody is widely applied in western blotting, immunohistochemistry, and functional repair assays. Western blotting detects monoubiquitination of FANCD2, immunohistochemistry demonstrates tumor-associated expression, and repair assays confirm participation in crosslink repair. These applications make UBE2T antibody indispensable in DNA repair and cancer biology.

By providing validated UBE2T antibody reagents, NSJ Bioreagents supports studies into ubiquitination, DNA repair, and disease. Detection of Ubiquitin-conjugating enzyme E2 T provides researchers with insight into how ubiquitin pathways regulate genome stability and cancer progression.

Explore our Cancer Marker Antibodies page to find additional antibodies for studying tumor biology, DNA damage responses, cell proliferation, and cancer-associated signaling.

Application Notes

Optimal dilution of the UBE2T antibody should be determined by the researcher.

Immunogen

E.coli-derived human UBE2T recombinant protein (Position: R9-Q145) was used as the immunogen for the UBE2T antibody.

Storage

After reconstitution, the UBE2T antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

Alternate Names

UBE2T antibody, Ubiquitin-conjugating enzyme E2 T antibody, HSPC150 antibody, Ubiquitin carrier protein T antibody, E2 ubiquitin-conjugating enzyme T antibody

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