

Technical Data Sheet

Purified Mouse Anti-UbchH7

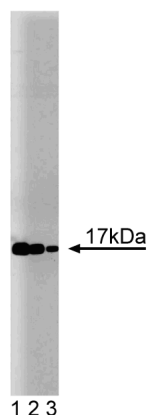
Product Information

Material Number:	610853
Alternate Name:	Ubiquitin Conjugating Enzyme H7
Size:	150 µg
Concentration:	250 µg/ml
Clone:	20/UbcH7
Immunogen:	Human UbchH7 aa. 15-133
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Human Tested in Development: Mouse, Rat, Dog, Frog
Target MW:	17-18 kDa
Storage Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤0.09% sodium azide.

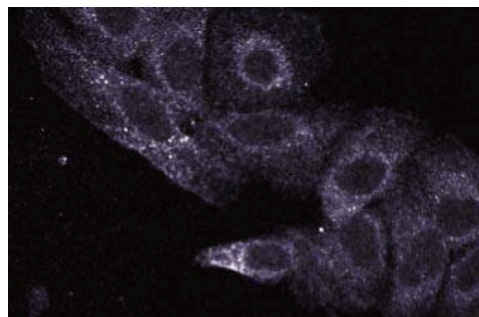
Description

Progression of the mammalian cell cycle is regulated mainly by phosphorylation/dephosphorylation and synthesis/degradation of many key proteins. Ubiquitin, a soluble protein of 76 amino acids, is enzymatically attached to an ε-NH₂-Lys in a target protein. Ubiquitination is a hallmark for rapid protein degradation of the target protein in the proteasome—a cytoplasmic complex of proteases. Several human homologs of the yeast ubiquitin-conjugating enzymes (Ubc) have been identified and found involved in critical processes such as cell cycle progression and apoptosis. UbchH7 was characterized as an E6-AP-interacting protein required for the ubiquitination of p53. E6-AP is the ubiquitin ligase used as bait in the search for interacting proteins required for the proper ubiquitination of cellular targets. UbchH7 interacts with the C-terminal region of E6-AP named the hect domain. Therefore, UbchH7 is another protein, like Ubc9, involved in the degradation and regulation of critical proteins in the cell cycle.

This antibody is routinely tested by western blot analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Western blot analysis of UbchH7 on a Jurkat cell lysate (Human T-cell leukemia; ATCC TIB-152). Lane 1: 1:250, lane 2: 1:500, lane 3: 1:1000 dilution of the mouse anti-UbchH7 antibody.



Immunofluorescence staining of HeLa cells (Human cervical epitheloid carcinoma; ATCC CCL-2.2).

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Store undiluted at -20° C.

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Application Notes

Application

Western blot	Routinely Tested
Immunofluorescence	Tested During Development
Immunoprecipitation	Not Recommended
Immunohistochemistry	Not Recommended

Recommended Assay Procedure:

Western blot: Please refer to http://www.bdbiosciences.com/pharming/en/protocols/Western_Blotting.shtml

Suggested Companion Products

Catalog Number	Name	Size	Clone
611451	Jurkat Cell Lysate	500 µg	(none)
554002	HRP Goat Anti-Mouse Igs	1.0 ml	(none)
554001	FITC Goat Anti-Mouse Igs	0.5 mg	Polyclonal

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/en/protocols for technical protocols.
3. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.

References

Hagglund R, Van Sant C, Lopez P, Roizman B. Herpes simplex virus 1-infected cell protein 0 contains two E3 ubiquitin ligase sites specific for different E2 ubiquitin-conjugating enzymes. *Proc Natl Acad Sci U S A*. 2002; 99(2):631-636.(Biology: Western blot)
Nuber U, Schwarz S, Kaiser P, Schneider R, Scheffner M. Cloning of human ubiquitin-conjugating enzymes UbcH6 and UbcH7 (E2-F1) and characterization of their interaction with E6-AP and RSP5. *J Biol Chem*. 1996; 271(5):2795-2800.(Biology)
Shimura H, Schlossmacher MG, Hattori N. Ubiquitination of a new form of alpha-synuclein by parkin from human brain: implications for Parkinson's disease. 2001; 293(5528):263-269.(Biology: Western blot)

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