

For Research Use Only

UBE2T/HSPC150 Polyclonal antibody

Catalog Number: 10105-2-AP

Featured Product

21 Publications



Basic Information

Catalog Number:

10105-2-AP

Size:

150ul, Concentration: 147 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG0153

GenBank Accession Number:

BC004152

GeneID (NCBI):

29089

UNIPROT ID:

Q9NPD8

Full Name:

ubiquitin-conjugating enzyme E2T (putative)

Calculated MW:

23 kDa

Observed MW:

23 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IF/ICC 1:200-1:800

Applications

Tested Applications:

WB, IF/ICC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP

Species Specificity:

human

Cited Species:

human

Positive Controls:

WB : HeLa cells, HepG2 cells, K-562 cells, Jurkat cells, SKOV-3 cells

IP : HeLa cells,

IF/ICC : HepG2 cells,

Background Information

The ubiquitin (Ub)-mediated protein degradation pathway involves three sequential enzymatic steps that facilitate the conjugation of Ub to specific protein substrates. The first step requires ATP-dependent activation of the C-terminus of Ub and the assembly of multi-Ubs by Ub-activating enzyme E1. The ubiquitin-conjugating enzyme E2, catalytic (UBC) domain, is then conjugated to Ubs, through a thiol-ester linkage between a conserved cysteine and the C-terminus of Ub, to generate an intermediate Ub-E2 complex. Then the E3, a ligase, catalyzes the transfer of Ub from E2 to the appropriate substrate. This pathway regulates many fundamental cellular processes. There are also other E2s which form thiol-ester linkages without the use of E3s as well as several UBC homologs (TSG101, Mms2, Croc-1 and similar proteins), which lack the active site cysteine essential for ubiquitination and appear to function in DNA repair pathways.

Notable Publications

Author	Pubmed ID	Journal	Application
Xuxiu Tao	36156329	Cancer Sci	WB,IHC,IF,IP
Xiangtian Wu	33014154	Oncol Lett	WB,IHC
Li-Li Liu	31571992	Cancer Manag Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

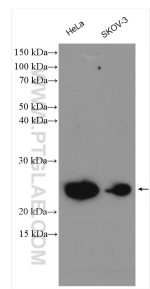
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

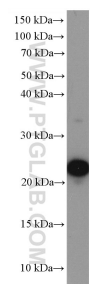
E: proteintech@ptglab.com
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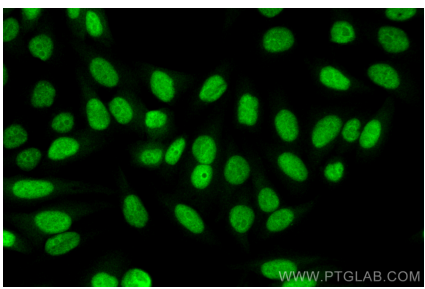
Selected Validation Data



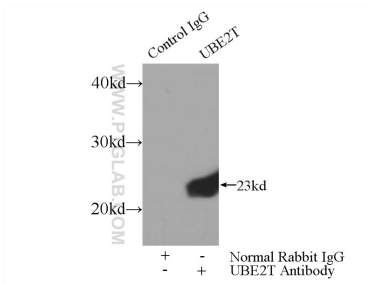
HeLa cells were subjected to SDS PAGE followed by western blot with 10105-2-AP (UBE2T/HSPC150 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



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Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using UBE2T/HSPC150 antibody (10105-2-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



IP result of anti-UBE2T/HSPC150 (IP:10105-2-AP, 3ug; Detection:10105-2-AP 1:500) with HeLa cells lysate 3000ug.