

For Research Use Only

# UBE2T/HSPC150 Recombinant monoclonal antibody

Catalog Number:86278-1-RR



## Basic Information

<b>Catalog Number:</b> 86278-1-RR	<b>GenBank Accession Number:</b> BC004152	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 29089	<b>CloneNo.:</b> 250784D6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9NPD8	<b>Recommended Dilutions:</b> WB: 1:1000-1:4000 IHC: 1:500-1:2000
<b>Isotype:</b> IgG	<b>Full Name:</b> ubiquitin-conjugating enzyme E2T (putative)	
<b>Immunogen Catalog Number:</b> AG0153	<b>Calculated MW:</b> 23 kDa	
	<b>Observed MW:</b> 23 kDa	

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB :** HeLa cells, HepG2 cells, SKOV-3 cells, Jurkat cells, K-562 cells, SW480 cells

**IHC :** human stomach cancer tissue,

## Background Information

ubitin (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.

## Storage

### Storage:

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

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

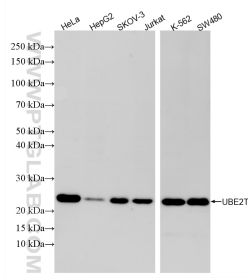
For technical support and original validation data for this product please contact:

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

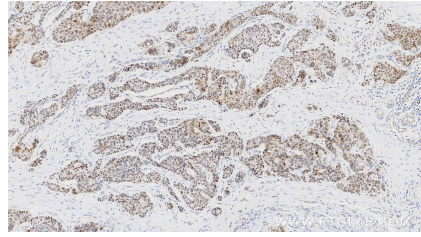
E: proteintech@ptglab.com  
W: ptglab.com

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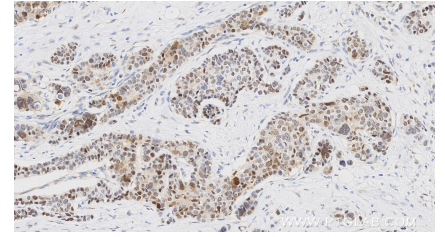
## Selected Validation Data



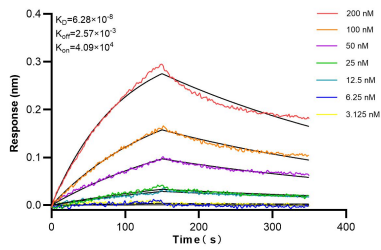
Various lysates were subjected to SDS PAGE followed by western blot with 86278-1-RR (UBE2T antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 86278-1-RR (UBE2T/HSPC150 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue slide using 86278-1-RR (UBE2T/HSPC150 antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 86278-1-RR against Human UBE2T/HSPC150 were performed. The affinity constant is 62.8 nM.