

**DESCRIPTION**

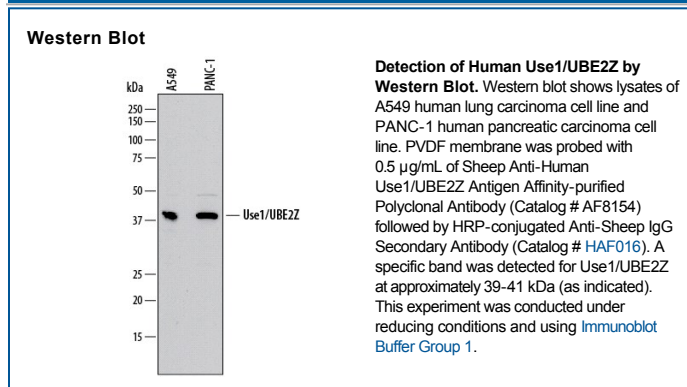
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human USE1/UBE2Z in direct ELISAs and Western blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant human Use1/UBE2Z Met1-Val354 Accession # Q9H832
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	0.5 µg/mL	See Below

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Uba6-specific E2 Conjugating Enzyme 1 (Use1), also known as Ubiquitin-conjugating Enzyme E2Z (UBE2Z), is a 38 to 43 kDa member of the Ubiquitin-conjugating (E2) enzyme family that is highly expressed in human placenta, pancreas, spleen, and testis. Use1 has an E2 catalytic core domain that contains an active site cysteine residue that is required for the formation of a thioester bond with Ubiquitin. It functions specifically with the UBE1L2/UBA6 Ubiquitin-activating (E1) enzyme, rather than the UBE1 E1 enzyme, for Ubiquitin conjugation. Expression is enriched in the cytoplasm, where it mediates the ubiquitination of RGS4 and RGS5 via the N-end rule proteolytic pathway. Use1 also functions with UBE1L2/UBA6 to mediate the conjugation of HLA F-associated Transcript 10 (FAT10), a Ubiquitin-like protein, and is auto-FAT10ylated in response to TNF-alpha and IFN-gamma. Full-length human Use1 is 354 amino acids (aa) and shares 100% sequence identity with mouse and rat Use1. A potential smaller isoform lacks aa 1-108.