

Antigen Affinity-purified Polyclonal Sheep IgG Catalog Number: AF8154

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

APPLICATIONS

	Recommended Sample Concentration
Vestern Blot	0.5 µg/mL See Below
DATA	
Western Blot	- Use1/UBE2Z Detection of Human Use1/UBE2Z by Western Blot. Western blot shows lysates of A549 human lung carcinoma cell line and PANC-1 human pancreatic carcinoma cell line. PVDF membrane was probed with 0.5 µg/mL of Sheep Anti-Human Use1/UBE2Z Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8154) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Use1/UBE2Z at approximately 39-41 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.
PREPARATION AND S	TORAGE
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	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
Stability & Storage	 Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution.

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- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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.

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