Human Use1/UBE2Z Alexa Fluor® 488-conjugated Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF8154G
100 µg

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human USE1/UBE2Z in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	*E. coli*-derived recombinant human Use1/UBE2Z Met1-Val354 Accession # Q9H832
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.*

Western Blot	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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.

PRODUCT SPECIFIC NOTICES

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