

Lot # XXXX

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MATERIAL DATA SHEET

UBE1L/ISG15 E1 Polyclonal Ab

Cat. # A-306 (100 µl)

This E1 is responsible for the first step in ISG15-protein isopeptide bond formation. This enzyme catalyzes the activation of the C-terminal carboxyl group of ISG15 by forming a high-energy thioester bond in an ATP-dependent manner. The activated ISG15 is then transferred to UbcH8 and subsequently to lysine groups of target proteins via this thioester conjugation cascade. The E1 enzyme is a critical component for the initiation of any *in vitro* conjugation reactions.

Product Information

Immunogen:	Synthetic peptide D ²²² CDPRSIHVREDGSLEIGD ²⁴⁰ of N-terminus of UBE1L
Host/Isotype:	Rabbit Polyclonal
Reactivity:	Antibody detects human UBE1L protein (112 kDa).
Stock:	100µl antiserum. No preservatives added.

Use & Storage

Specificity:	Functional for Western blotting and Immunohistochemistry.
Storage:	Store vial at -20°C. Avoid freeze-thaw cycles.

Literature

References:	Hemelaar J., <i>et al.</i> (2004) <u>Mol. Cell. Biol.</u> 24 :84-95 Kitareenwan S., <i>et al.</i> (2002) <u>Proc. Natl. Acad. Sci.</u> 99 :3806-3811 Kok K., <i>et al.</i> (1994) <u>Canc. Res.</u> 54 :4183-4187 Pitha-Rowe, I., <i>et al.</i> (2004) <u>J. Biol. Chem.</u> 279 :18178-18187 Pitha-Rowe, I., <i>et al.</i> (2004) <u>Canc. Res.</u> 264 :8109-8115 Yuan W., <i>et al.</i> (2001) <u>EMBO. J.</u> 20 : 362-371
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