

MATERIAL DATA SHEET

Recombinant Human His6 UBE4B

Cat. # E3-270

Ubiquitin conjugation factor E4 B (UBE4B, also known as Ubiquitin fusion degradation protein 2) is a recently identified E3 and E4 Ubiquitin ligase that physically interacts with p53 and Hdm2 to promote p53 polyubiquitination and degradation. Recent work in mouse models suggests that p53 loss in accelerated medulloblastomas is driven by UBE4B. Overexpression of UBE4B correlated with decreased expression of p53 in xenotransplant tumor models, and overexpression of UBE4B is often observed in human brain tumors. UBE4B appears to be involved in multiple pathways that are associated with neuronal survival.

Product Information

Quantity:	50 µg
MW:	147 kDa
Source:	<i>Spodoptera frugiperda</i> , Sf21 (baculovirus)-derived human UBE4B protein Contains an N-terminal 6-His tag
Stock:	X mg/ml (X µM) in 50 mM HEPES pH 7.5, 200 mM NaCl, 20% (v/v) Glycerol, 1 mM TCEP, 10 µM ZnCl ₂
Purity:	>90%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain.

Use & Storage

Use:	Typical enzyme concentration for <i>in vitro</i> conjugation reactions is 100-500 nM depending on experimental conditions and substrate. Recombinant human UBE4B demonstrates strong <i>in vitro</i> autoubiquitination activity in the presence of UBE1, UBE2D3, Ubiquitin, and ATP.
Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">• 12 months from date of receipt, -70 °C as supplied.• 3 months, -70 °C under sterile conditions after opening.

Literature

References:

1. Gillingwater T.H. *et al.* (2002) J. Physiol. **543**: 739
2. Wu H. *et al.* (2011) Nat. Med. **3**: 347
3. Wu H. & Leng R.P. (2011) Cell Cycle **10**: 1912
4. Zeinab R.A. *et al.* (2012) Int. J. Mol. Sci. **12**: 16865

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