

MATERIAL DATA SHEET**USP11, human recombinant****Cat. # E-602**

Ubiquitin carboxyl-terminal hydrolase 11 (USP11) is a specialized cysteine protease with a predicted molecular weight of 110 kDa. USP11 is a member of the peptidase C19 family and the human protein shares 77% amino acid sequence identity with its mouse ortholog. USP11 plays a role in DNA double-strand break (DSB) repair, and cells are hypersensitive to γ radiation when USP11 has been knocked down. USP11 overexpression is often observed in colorectal cancer and melanoma and is correlated with poor survival. In these cases USP11 may be driving disease states by stabilizing cIAP2. Interestingly, recent genetic analysis suggests that USP11 was generated during the course of vertebrate evolution by a small-scale duplication of the USP4-encoding region. This recombinant protein contains a C-terminal 6-His tag.

Product Information

Quantity:	50 μ g
Stock:	X mg/ml (X μ M) in 50 mM HEPES pH 7.5, 100 mM NaCl, 10% (v/v) Glycerol, 1 mM TCEP
MW:	111 kDa
Purity:	\geq 85% by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie Blue Stain.

Use & Storage

Use:	Reaction conditions will need to be optimized for each specific application. We recommend an initial recombinant human USP11 concentration of 10-50 nM when using Ubiquitin-AMC or Ubiquitin-Rh110 substrates (U-550 , U-555)
Storage:	Store at -80° C. Avoid multiple freeze/thaw cycles.

Literature

References:	Lee, E.W. <i>et al.</i> (2015) <i>Cell Death Differ.</i> 22 : 1463 Vlasschaert, C. <i>et al.</i> (2015) <i>BMC Evol Biol.</i> 15 : 230. Yu, M. <i>et al.</i> (2016) <i>J. Biol. Chem.</i> 291 : 959
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