Active Recombinant Human USP21, GST-tagged

Cat. No. USP21-163H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human USP21 (amino acid residues 196-565), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	196-565 a.a.
Description	There are two main classes of DUB, cysteine proteases and metalloproteases. Ubiquitin specific protease 21 (USP21) is a member of the cysteine protease enzyme family and cloning of the gene was first described by Gong et al. (2000). USP21 cleaves ubiquitin polymers, and with reduced activity also targets the UBL ISG15 but not NEDD8 (Ye et al., 2011). USP21 has been shown to be involved in the regulation of transcriptional initiation through the deubiquitylation of histone H2A as well as playing a role in the regulation of tumour necrosis factor α (TNFα) induced nuclear factor κβ (NF-κβ) activation by deubiquitylating receptor-interacting protein 1 (RIP1) (Nakagawa et al., 2008; Xu et al., 2010).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	Deubiquitylase Enzyme Assay: The activity of GST-USP21 was validated by determining the increase in fluorescence measured as a result of the enzyme catalysed cleavage of the fluorogenic substrate Ubiquitin-Rhodamine110-Glycine generating Ubiquitin and Rhodamine110-Glycine. Incubation of the substrate in the

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	presence or absence of GST-USP21 was compared confirming the deubiquitylating activity of GST-USP21.
Molecular Mass	67.5 kDa
Purity	>79% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	USP21 ubiquitin-specific protease [Homo sapiens]
Official Symbol	USP21
Synonyms	USP21; ubiquitin-specific protease;
Gene ID	29963

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