Active Recombinant Human TNFAIP3, GST-tagged

Cat. No. TNFAIP3-156H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TNFAIP3 (amino acid residues 1-336), fused with N-terminal GST, was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-336 a.a.
Description	There are two main classes of DUB, cysteine proteases and metalloproteases. A20 is a cysteine protease and is a member of the OTU (ovarian tumour) superfamily of proteins (Balakirev et al., 2003). Cloning of the human gene was first described by Opipari et al. (1990). A20, or TNFAIP3, is a ubiquitin-editing enzyme that contains both ubiquitin ligase and deubiquitylase activities. The N-terminal domain of A20 functions as a deubiquitylating enzyme by removing K63-linked ubiquitin chains from receptor-interacting protein (RIP) essential mediator of the proximal TNF receptor-1 (TNFR1) signalling complex.
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-A20 CD(1-366) was validated by the monitoring of mono-ubiquitin generation as a result of the enzyme catalysed cleavage of K48-linked di-ubiquitin. Incubation of the substrate in the presence or absence of GST-A20 CD(1-366) was compared confirming the deubiquitylating activity of GST-A20 CD(1-366).

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Molecular Mass	~70.9kDa
Purity	>98% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml

GENE INFORMATION

Gene Name	TNFAIP3 tumor necrosis factor, alpha-induced protein 3 [Homo sapiens]
Official Symbol	TNFAIP3
Synonyms	TNFAIP3; tumor necrosis factor, alpha-induced protein 3; tumor necrosis factor alpha-induced protein 3; A20; OTUD7C; TNFAIP3 (A20); zinc finger protein A20; TNF alpha-induced protein 3; OTU domain-containing protein 7C; putative DNA-binding protein A20; tumor necrosis factor inducible protein A20; TNFA1P2; MGC104522; MGC138687; MGC138688;
Gene ID	7128
mRNA Refseq	NM_006290
Protein Refseq	NP_006281
MIM	191163
UniProt ID	P21580
Chromosome Location	6q23-q25

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Pathway	CD40/CD40L signaling, organism-specific biosystem; Canonical NF-kappaB pathway, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; Measles, organism-specific biosystem; Measles, conserved biosystem; NOD-like receptor signaling pathway, organism-specific biosystem;
Function	DNA binding; cysteine-type endopeptidase inhibitor activity involved in apoptotic process; cysteine-type peptidase activity; kinase binding; ligase activity; metal ion binding; peptidase activity; protease binding; protein binding; protein self-association; ubiquitin binding; ubiquitin thiolesterase activity; ubiquitin-protein ligase activity; ubiquitin-specific protease activity; ubiquitin-specific protease activity; zinc ion binding;

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