

Active Recombinant Human STAMPB, GST-tagged

Cat. No. STAMPB-167H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human STAMPB (amino acid residues 252-424), fused with N-terminal GST, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	252-424 a.a.
Description	AMSH is a member of the JAB1/MPN/Mov34 metalloenzyme (JAMM) family and cloning of the human gene was first described by Tanaka et al. (1999). AMSH and AMSH-LP share 54% identity and 75% sequence similarity in their JAMM domain. It is known that both proteins act as regulators of free ubiquitin in the cell, bind clathrin, and contain a putative nuclear localization signal and a microtubule interacting and transport (MIT) domain. AMSH also contains a Src homology 3 (SH3) domain, facilitating its interaction with signal transducing adaptor molecule (STAM), while this functional SH3-binding motif is lost in AMSH-LP (Davies, et al., 2011).
Form	50 mM HEPES pH 7.5, 150 mM sodium chloride, 2 mM dithiothreitol, 10% glycerol
Bio-activity	The activity of GST-AMSH CD(252-424) was validated by the monitoring of mono-ubiquitin generation as a result of the enzyme catalysed cleavage of K63-linked di-ubiquitin. Incubation of the substrate in the presence or absence of GST-AMSH CD(252-424) was compared confirming the deubiquitylating activity of GST-AMSH CD(252-424).

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Molecular Mass	47.1 kDa
Purity	>89% by SDS-PAGE
Storage	12 months at -70°C. Avoid multiple freeze/thaw cycles.
Concentration	0.5 mg/ml
GENE INFORMATION	
Gene Name	STAMBP STAM binding protein [Homo sapiens]
Official Symbol	STAMBP
Synonyms	STAMBP; STAM binding protein; STAM-binding protein; AMSH; endosome-associated ubiquitin isopeptidase; associated molecule with the SH3 domain of STAM; MGC126516; MGC126518;
Gene ID	10617
mRNA Refseq	NM_006463
Protein Refseq	NP_006454
MIM	606247
UniProt ID	O95630
Chromosome Location	2p24.3-p24.1
Pathway	Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem;

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Internalization of ErbB1, organism-specific biosystem;

Function

metal ion binding; metallopeptidase activity; peptidase activity; protein binding;

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