E3 Ubiquitin-Protein Ligase RNF168 (rnf168) Xenopus Laevis Recombinant Protein

PRODUCT OVERVIEW

Product Name	E3 ubiquitin-protein ligase RNF168 (rnf168), Recombinant Protein
Full Product Name	Recombinant Xenopus laevis E3 ubiquitin-protein ligase RNF168 (rnf168), partial
Product Gene Name	rnf168 recombinant protein
Product Synonym Gene Name	rnf168
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	62,890 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q6INS5
Species	Xenopus laevis (African clawed frog)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for rnf168 recombinant protein	MBS1353442 is a recombinant protein targeting rnf168. Also known as Recombinant Xenopus laevis E3 ubiquitin-protein ligase RNF168 (rnf168), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of rnf168 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for rnf168. It may not necessarily be applicable to this product.

NCBI GI #	148231758
NCBI GeneID	432198
NCBI Accession #	NP_001085123.1
UniProt Primary Accession #	Q6INS5
UniProt Related Accession #	Q6INS5
GenBank Nucleotide #	NM_001091654.1
NCBI Official Full Name	E3 ubiquitin-protein ligase rnf168
NCBI Official Synonym Full Names	ring finger protein 168, E3 ubiquitin protein ligase L homeolog
NCBI Official Symbol	rnf168.L

NCBI Official Synonym Symbols	rnf168
UniProt Protein Name	E3 ubiquitin-protein ligase rnf168
UniProt Synonym Protein Names	RING finger protein 168
Protein Family	E3 ubiquitin-protein ligase
UniProt Gene Name	rnf168
NCBI Protein Information	E3 ubiquitin-protein ligase rnf168; E3 ubiquitin-protein ligase RNF168
UniProt Comments for rnf168	E3 ubiquitin-protein ligase required for accumulation of repair proteins to sites of DNA damage. Acts with ube2n/ubc13 to amplify the rnf8-dependent histone ubiquitination. Recruited to sites of DNA damage at double-strand breaks (DSBs) by binding to ubiquitinated histone H2A and ubiquitinates histone H2A and H2AX, leading to amplify the rnf8-dependent H2A ubiquitination and promoting the formation of 'Lys-63'-linked ubiquitin conjugates. This leads to concentrate ubiquitinated histones H2A and H2AX at DNA lesions to the threshold required for recruitment of tp53bp1 and brca1. Catalyzes monoubiquitination of 'Lys-13' and 'Lys-15' of nucleosomal histone H2A (H2AK13Ub and H2AK15Ub, respectively).
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