

Product datasheet

Recombinant human Sumo 3 protein ab3802

1 Image

Overview

Product name	Recombinant human Sumo 3 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Species	Human
Molecular weight	11 kDa

Specifications

Our [Abpromise guarantee](#) covers the use of **ab3802** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity The final fraction of enzyme contains a single polypeptide band of 11 kDa.

Applications Western blot
Functional Studies

Form Liquid

Additional notes The final fraction of enzyme contains a single polypeptide band of 11 kDa.

Preparation and Storage

Stability and Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

pH: 7.50

Preservative: 0.68% Imidazole

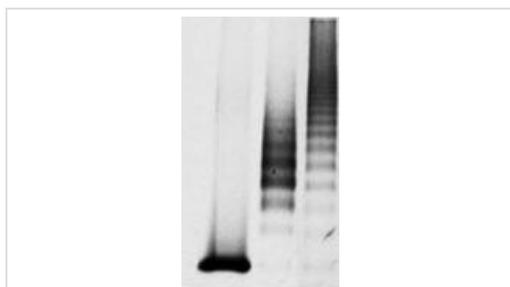
Constituents: 0.0087% PMSF, 0.0154% DTT, 0.158% Tris HCl, 10% Glycerol, 0.58% Sodium chloride

This product is an active protein and may elicit a biological response in vivo, handle with caution.

General Info

Function	Ubiquitin-like protein which can be covalently attached to target lysines either as a monomer or as a lysine-linked polymer. Does not seem to be involved in protein degradation and may function as an antagonist of ubiquitin in the degradation process. Plays a role in a number of cellular processes such as nuclear transport, DNA replication and repair, mitosis and signal transduction. Covalent attachment to its substrates requires prior activation by the E1 complex SAE1-SAE2 and linkage to the E2 enzyme UBE2I, and can be promoted by an E3 ligase such as PIAS1-4, RANBP2 or CBX4.
Tissue specificity	Expressed predominantly in liver.
Sequence similarities	Belongs to the ubiquitin family. SUMO subfamily. Contains 1 ubiquitin-like domain.
Post-translational modifications	Polymeric chains can be formed through Lys-11 cross-linking. Cleavage of precursor form by SENP1, SENP2 or SENP5 is necessary for function.
Cellular localization	Cytoplasm.

Images



Functional Studies - Recombinant human Sumo 3 protein (ab3802)

Sumoylation assay

Left Lane: Topo I protein (Topo I fragment: [ab3828](#))

Middle Lane: Sumo 1 sumoylated Topo I (Sumo 1: [ab3801](#); Topo I fragment: [ab3828](#); E1: [ab3804](#); E2: [ab3803](#); Buffer: [ab3827](#))

Right Lane: Sumo 3 sumoylated Topo I (Sumo 3: [ab3802](#); Topo I fragment: [ab3828](#); E1: [ab3804](#); E2: [ab3803](#); Buffer: [ab3827](#))

Note: Topo I is S³⁵-Met labeled.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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- Response to your inquiry within 24 hours

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