

Datasheet for ABIN2468369

**Endonuclease G Protein (ENDOG) (AA 51-140) (His tag, Strep II tag)**[Go to Product page](#)**1** Image

## Overview

Quantity:	0.05 mg
Target:	Endonuclease G (ENDOG)
Protein Characteristics:	AA 51-140
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Endonuclease G protein is labelled with His tag, Strep II tag.
Application:	Western Blotting (WB), ELISA, Mass Spectrometry (MS)

## Product Details

Purity:	~95 %
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## Target Details

Target:	Endonuclease G (ENDOG)
Alternative Name:	EndoG ( <a href="#">ENDOG Products</a> )
Background:	The fragmentation of nuclear DNA is a hallmark of apoptotic cell death. The activities of caspase and nuclease are involved in the DNA fragmentation. Caspase-activated deoxyribonuclease (CAD), also termed DNA fragmentation factor (DFF40), is one such nuclease, and is capable of inducing DNA fragmentation and chromatin condensation after cleavage by caspase-3 of its inhibitor ICAD/DFF45. Caspase and CAD independent DNA fragmentation also exists. Recent studies demonstrated that another nuclease, endonuclease G (EndoG), is

## Target Details

specifically activated by apoptotic stimuli and is able to induce nucleosomal fragmentation of DNA independently of caspase and DFF/CAD (1-3). EndoG is a mitochondrion-specific nuclease that translocates to the nucleus and cleaves chromatin DNA during apoptosis. The homologue of mammalian EndoG is the first mitochondrial protein identified to be involved in apoptosis in *C. elegans* (2). EndoG also cleaves DNA in vitro (4).

Molecular Weight: 15 kDa (Calculated)

Gene ID: 2021

OMIM: 24638471

UniProt: [Q14249](#)

Pathways: [Apoptosis](#)

## Application Details

Application Notes: This recombinant protein can be used for WB, ELISA, MS.

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: 1X PBS containing 0.1 % SDS and 0.02 % NaN

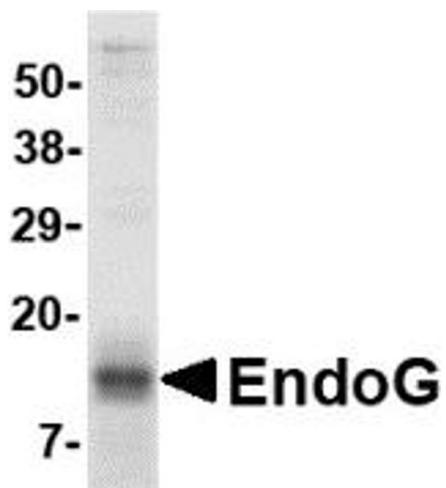
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Storage: -80 °C

Storage Comment: Store in working aliquots at -70 °C.



Western Blotting

Image 1.