

ABfinity™ Casp3 Recombinant Rabbit Oligoclonal Antibody

Store at 2°C to 8°C (short-term), or -20°C (long-term)

Catalog Number 710431

Pub. No. MAN0007777 Rev. 1.00

Clonality: Oligoclonal	Quantity: 100 µg	Volume: 200 µL	Concentration: 0.5 mg/mL
Host/Class: Rabbit IgG	Reactivity: Human	Predicted Reactivity: Human Casp3	

Product description

Casp3 (caspase-3) is a cysteine peptidase involved in cellular apoptosis pathways. Casp3 is expressed in an inactive form. This proform is cleaved at aspartate sites (facilitated by caspase-8, -9, and -10) to generate two subunits which dimerize to form the active enzyme. In turn, active Casp3 cleaves and activates caspase-6, and -7 to coordinate the execution phase of apoptosis. Casp3 is also involved in B cell homeostasis, keratinocyte differentiation, and positive regulation of neuronal apoptosis. In humans, the CASP3 gene encoding caspase 3 is present on chromosome 4.

Product specifications

Immunogen:	Peptide corresponding to amino acids 30–43 of human Casp3
Alternative Names:	CPP32, SCA-1
Apparent MW:	~35 kDa
Gene ID:	836
Protein Accession No.:	P42574
Sequence Identity:	Human
Isotype:	IgG
Lot:	See product label

Product applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa, Jurkat cells	2–3 µg/mL
Indirect ELISA	Human	Peptide	1.5 × 10 ⁻⁴ to 3 µg/mL

Storage and handling

Store the antibody at 2°C to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

Stability

When stored as instructed, expires one year from date of receipt unless otherwise indicated on product label.

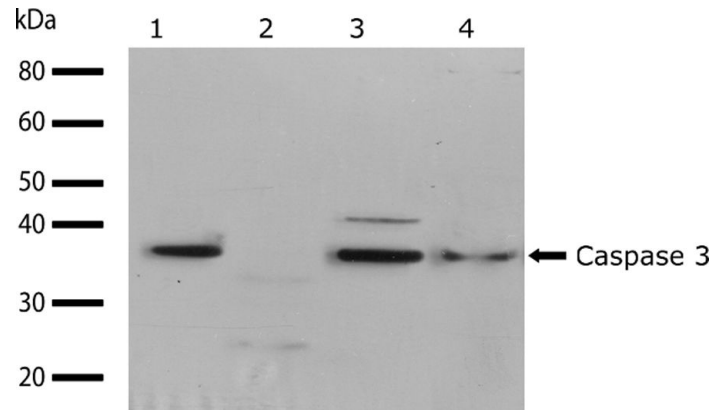


Figure 1 Western blot analysis of ABfinity™ Casp3 Recombinant Rabbit Oligoclonal Antibody (Cat. no. 710431).

Western blot analysis was performed on whole cell extracts from HeLa, HeLa treated with Staurosporine (1 µM, 3 hrs), Jurkat, and Jurkat treated with Staurosporine (1 µM, 3 hrs), (lanes 1–4 respectively). Endogenous level of Casp3 was detected at ~35 kDa using ABfinity™ Casp3 Recombinant Rabbit Oligoclonal Antibody at a concentration of 2 µg/mL, followed by Goat Anti-Rabbit HRP (Cat. no. G21234) as a secondary antibody. The blot was developed using enhanced chemiluminescence (ECL) method.

Storage buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.



CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing and gloves. SDSs are available at www.lifetechnologies.com/support.

Product documentation

To obtain a Certificate of Analysis or Safety Data Sheet (SDS), visit <http://www.lifetechnologies.com/support>.

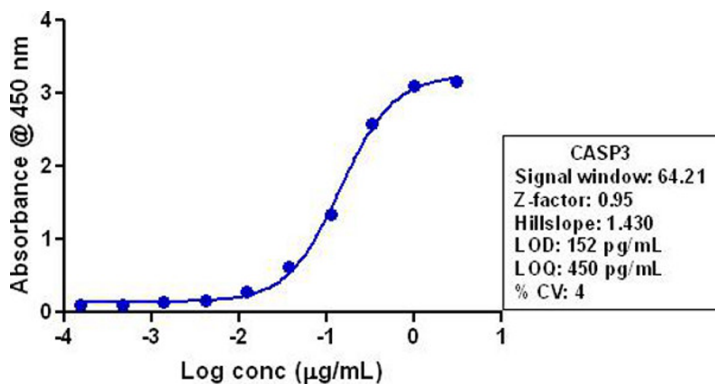


Figure 2 Indirect ELISA of ABfinity™ Casp3 Recombinant Rabbit Oligoelonal Antibody (Cat. no. 710431).

Indirect ELISA was performed using various dilutions of ABfinity™ Casp3 Recombinant Rabbit Oligoelonal Antibody, followed by Goat Anti-Rabbit HRP (Cat. no. G21234), to detect Casp3 peptide coated onto the plate. A non-linear regression analysis was performed (4 PL), LOD, and LOQ for the antibody was determined.

Limited product warranty

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Explanation of Symbols

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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