abcam

Product datasheet

Human Caspase-9 ELISA Kit ab119508

4 References 1 Image

Overview

Product name Human Caspase-9 ELISA Kit

Detection method Colorimetric

Precision

Intra-assay

Sample	n	Mean	SD	CV%
Overall	8			6.6%

Inter-assay

Sample	n	Mean	SD	CV%
Overall	8			9%

Sample type Cell culture supernatant, Serum, Cell Lysate

Assay type Sandwich (quantitative)

Sensitivity 0.4 ng/ml

Range 1.6 ng/ml - 100 ng/ml

Recovery 103 %

Assay duration Multiple steps standard assay

Species reactivity **Reacts with:** Human

Product overview Abcam's Caspase-9 Human in vitro ELISA (Enzyme-Linked Immunosorbent Assay) kit is designed for accurate quantitative measurement of Human Caspase-9 concentrations in cell lysate, cell culture supernatant and serum.

Caspase-9 specific antibodies have been precoated onto 96-well plates. Standards and test samples are added to the wells and along with a Caspase-9 detection antibody and the microplate is then incubated at room temperature. Following washing a HRP conjugated anti-rabbit-IgG antibody is added to each well, incubated at room temperature then again washed. TMB is added and then catalyzed by HRP to produce a blue color product that changes into yellow after adding acidic stop solution. The density of yellow coloration is directly proportional to the Caspase-9 amount of sample captured in plate.

Platform Microplate

Properties

Storage instructions Store at +4°C. Please refer to protocols.

Components	1 x 96 tests
20X Assay Buffer Concentrate	1 x 5ml
20X Wash Buffer Concentrate	1 x 50ml
Adhesive Films	4 units
Anti-rabbit-IgG HRP conjugated antibody	1 x 10µl
Human Caspase-9 Standard	2 vials
10X Lysis buffer	1 x 15ml
Microplate coated with monoclonal antibody to Human Caspase-9 (12 x 8 wells)	1 unit
Polyclonal anti-Human Caspase-9 Detection Antibody (rabbit)	1 x 70µl
Sample Diluent	1 x 12ml
Stop Solution (1M Phosphoric acid)	1 x 15ml
TMB Substrate Solution	1 x 15ml

Function Involved in the activation cascade of caspases responsible for apoptosis execution. Binding of caspase-9 to Apaf-1 leads to activation of the protease which then cleaves and activates caspase-3. Proteolytically cleaves poly(ADP-ribose) polymerase (PARP).
Isoform 2 lacks activity is an dominant-negative inhibitor of caspase-9.

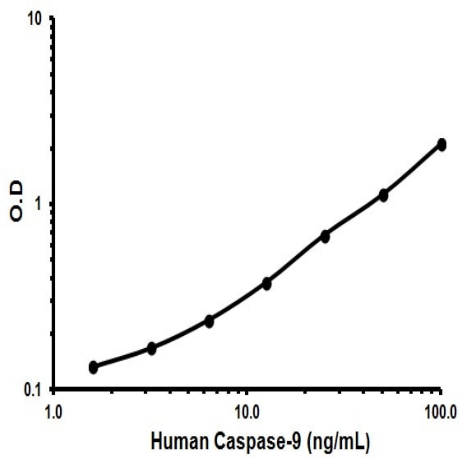
Tissue specificity Ubiquitous, with highest expression in the heart, moderate expression in liver, skeletal muscle, and pancreas. Low levels in all other tissues. Within the heart, specifically expressed in myocytes.

Sequence similarities Belongs to the peptidase C14A family.
Contains 1 CARD domain.

Developmental stage Expressed at low levels in fetal heart, at moderate levels in neonate heart, and at high levels in adult heart.

Post-translational modifications Cleavages at Asp-315 by granzyme B and at Asp-330 by caspase-3 generate the two active subunits. Caspase-8 and -10 can also be involved in these processing events.

Images



Typical Standard Curve

Representative Standard Curve using ab119508.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors