



Datasheet for ABIN4886357

Caspase 3 ELISA Kit



[Go to Product page](#)

1 Publication

Overview

Quantity:	96 tests
Target:	Caspase 3 (CASP3)
Binding Specificity:	Cleaved-Asp175, Uncleaved
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	CASP-3 (D175) ELISA Kit. This ELISA is for measuring cleaved CASP-3 (Asp-175) as well as CASP-3 in human cell lysates.
Sample Type:	Cell Lysate, Tissue Lysate
Analytical Method:	Semi-Quantitative
Detection Method:	Colorimetric
Specificity:	The antibody pair provided in this kit recognizes human/mouse cleaved-caspase-3 cleaved at site Aspartic Acid-175 as well as caspase-3.
Characteristics:	<ul style="list-style-type: none">• Rapidly measures cleaved protein and pan protein in one experiment (for normalization purpose)• Screen numerous different cell lysates without performing a Western Blot analysis• Minimal hands-on time, convenient, and non-radioactive material
Components:	<ul style="list-style-type: none">• Pre-Coated 96-well Strip Microplate• Wash Buffer

Product Details

- Anti-cleaved Antibody
- Anti-pan Antibody
- HRP-Conjugated Secondary Antibody
- Assay Diluent
- TMB One-Step Substrate
- Stop Solution
- Lysis Buffer
- Positive Control Sample

Material not included:

- Distilled or deionized water
- 100 mL and 1 liter graduated cylinders
- Tubes to prepare sample dilutions
- Protease and Phosphatase inhibitors
- Precision pipettes to deliver 2 µL to 1 mL volumes
- Adjustable 1-25 mL pipettes for reagent preparation
- Benchtop rocker or shaker
- Microplate reader capable of measuring absorbance at 450 nm

Target Details

Target: Caspase 3 (CASP3)

Alternative Name: CASP3 ([CASP3 Products](#))

Gene ID: 836

UniProt: [P42574](#)

Pathways: [Apoptosis](#), [Caspase Cascade in Apoptosis](#), [Sensory Perception of Sound](#), [ER-Nucleus Signaling](#), [Positive Regulation of Endopeptidase Activity](#), [Activated T Cell Proliferation](#)

Application Details

Sample Volume: 100 µL

Plate: Pre-coated

Protocol:

1. Prepare all reagents and samples as instructed in the manual.
2. Add 100 µL of sample or positive control to each well.
3. Incubate 2.5 h at RT or O/N at 4 °C.
4. Add 100 µL of prepared primary antibody to each well.
5. Incubate 1 h at RT.
6. Add 100 µL of prepared 1X HRP-Streptavidin to each well.
7. Incubate 1 h at RT.

Application Details

8. Add 100 µL of TMB One-Step Substrate Reagent to each well.
9. Incubate 30 min at RT.
10. Add 50 µL of Stop Solution to each well.
11. Read at 450 nm immediately.

Restrictions: For Research Use only

Handling

Storage: -20 °C

Storage Comment: Upon receipt, the kit should be stored at -20°C. Please use within 6 months from the date of shipment. After initial use, Wash Buffer Concentrate (Item B), Assay Diluent (Item E), TMB One-Step Substrate Reagent (Item H), Stop Solution (Item I) and Cell Lysate Buffer (Item J) should be stored at 4°C to avoid repeated freeze-thaw cycles. Return unused wells to the pouch containing desiccant pack, reseal along entire edge, and store at -20°C. Item D, store at 2-8°C for up to one month (store at -20°C for up to 6 months, avoid repeated freeze-thaw cycles). Reconstituted Positive Control (Item K) should be stored at -70°C.

Expiry Date: 6 months

Publications

Product cited in: Tang, Pei, Yang, Wang, Wang, Gao, Li, Yang, Yang: "The inhibition of calpains ameliorates vascular restenosis through MMP2/TGF-β1 pathway." in: **Scientific reports**, Vol. 6, pp. 29975, (2018) ([PubMed](#)).

Yao, Sun, Fei, Wang, Wang, Zhang, Wu, Liu, Liu, Cui, Li, Yu, Dang, Wang: "Screening in larval zebrafish reveals tissue-specific distribution of fifteen fluorescent compounds." in: **Disease models & mechanisms**, Vol. 10, Issue 9, pp. 1155-1164, (2018) ([PubMed](#)).

Shang, Liu, Liu, Li, Dou, Zhang, Sun, Zhang, Zhu, Mu, Ding, Wen: "Telmisartan improves vascular remodeling through ameliorating prooxidant and profibrotic mechanisms in hypertension via the involvement of transforming growth factor-β1." in: **Molecular medicine reports**, Vol. 16, Issue 4, pp. 4537-4544, (2018) ([PubMed](#)).

Zhou, Zhang, Gao, Tan, Zheng, Zhao, Zhang: "Induced pluripotent stem cell-conditioned medium suppresses pulmonary fibroblast-to-myofibroblast differentiation via the inhibition of TGF-β1/Smad pathway." in: **International journal of molecular medicine**, Vol. 41, Issue 1, pp. 473-484, (

2018) ([PubMed](#)).

"Retraction: Naringin Alleviates Diabetic Kidney Disease through Inhibiting Oxidative Stress and Inflammatory Reaction." in: **PLoS ONE**, Vol. 13, Issue 2, pp. e0192465, (2018) ([PubMed](#)).