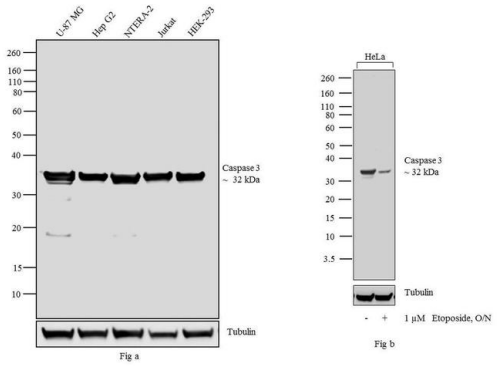
# Caspase 3 Monoclonal Antibody (4-1-18)

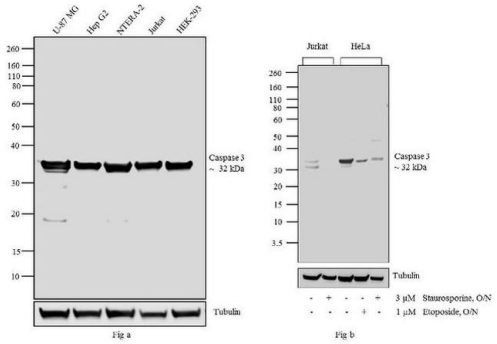
| Product Details | |
|---|---|
| Size | 100 µg |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotype | Mouse / IgG2a |
| Class | Monoclonal |
| Type | Antibody |
| Clone | 4-1-18 |
| Conjugate | Unconjugated |
| Immunogen | Full length, recombinant human caspase 3 protein |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS, pH 7.4 |
| Contains | 0.1% sodium azide |
| Storage conditions | Maintain refrigerated at 2-8°C for up to 1 month. For long term storage store at -20°C |
| RRID | AB_2533197 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Western Blot (WB) | 1-2 µg/mL | 3 Publications |
| Immunohistochemistry (IHC) | 1-2 µg/mL | - |
| Immunohistochemistry (Paraffin) (IHC (P)) | - | 2 Publications |

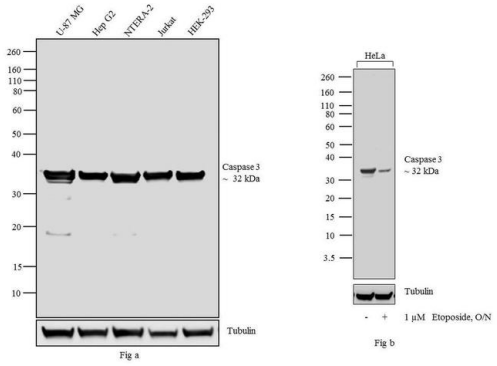
## Product Images For Caspase 3 Monoclonal Antibody (4-1-18)




**Caspase 3 Antibody (35-1600Z)**
Altered expression of protein upon cell treatment demonstrates antibody specificity. Western blot of Caspase-3 using Anti-Caspase 3 Mouse Monoclonal Antibody (Product# 35-1600Z) shows increased expression of Caspase 3 in HeLa upon Etoposide treatment. {TM}




**Caspase 3 Antibody (35-1600Z) in WB**
Western blot analysis of Caspase-3 was performed by loading 20 µg of U-87 MG (lane 1), Hep G2 (lane 2), Ntera-2 (lane 3), Jurkat (lane 4) and HEK-293 (lane 5) (Fig. A) and Jurkat (lane 1), Jurkat treated for O/N with 3 uM of Staurosporine (lane 2), HeLa (lane 3), HeLa treated for O/N with 1 uM of Etoposide (lane 4) and HeLa treated for O/N with 3 uM of Staurosporine in (lane 5) (Fig. B) cell lysates using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. Caspase-3 was detected at ~32 kDa using Caspase-3 Mouse Monoclonal Antibody (Product # 35-1600Z) at 1-2 µg /mL in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Mouse - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106). (Fig. B) Upon treatment with Staurosporine /Etoposide there was a reduction in total Caspase-3.




**Caspase 3 Antibody (35-1600Z) in WB**
Western blot analysis of Caspase-3 was performed by loading 20 µg of whole cell lysates ofU-87 MG (lane 1), Hep G2 (lane 2), Ntera-2 (lane 3), Jurkat (lane 4) and HEK-293 (lane 5) (Fig. a) and HeLa (lane 1), HeLa treated for O/N with 1 uM of Etoposide (lane 2) (Fig. b) using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # EI0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and iBlot® Dry Blotting System (Product # IB21001). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. Caspase-3 was detected at ~32 kDa using Caspase-3 Mouse Monoclonal Antibody (Product # 35-1600Z) at 1-2 µg/mL in 5 % skim milk at 4°C overnight on a rocking platform. Goat Anti-Mouse - HRP Secondary Antibody (Product # 62-6520) at 1:4000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106). (Fig. B) Upon treatment with Staurosporine/Etoposide there was a reduction in total Caspase-3.

## 5 References

### Western Blot (3)

**Oncology reports**

#### In vitro cytotoxicity of 4'-OH-tamoxifen and estradiol in human endometrial adenocarcinoma cells HEC-1A and HEC-1B.

"35-1600Z was used in western blot to assess the effects of 4'-hydroxy-tamoxifen and estradiol on two human endometrial adenocarcinoma cell lines."

Authors: Cuevas ME,Lindeman TE

**Year**
2015

**Species**
Human

**Dilution**
2 µg/ml

**European journal of clinical investigation**

#### The effect of Longan seed polyphenols on colorectal carcinoma cells.

Authors: Chung YC,Lin CC,Chou CC,Hsu CP

**Year**
2010

**Species**
Human

View more WB references on thermofisher.cn

### Immunohistochemistry (Paraffin) (2)

**Oncology letters**

#### Cytokeratin and protein expression patterns in squamous cell carcinoma of the oral cavity provide evidence for two distinct pathogenetic pathways.

"35-1600Z was used in immunohistochemistry - paraffin section to investigate evidence for two distinct pathogenetic pathways by studing the squamous cell carcinoma of the oral cavity and cytokeratin and protein expression patterns"

Authors: Frohwitter G,Buerger H,VAN Diest PJ,Korsching E,Kleinheinz J,Fillies T

**Year**
2016

**Dilution**
1:100

**Autoimmune diseases**

#### The caspase pathway as a possible therapeutic target in experimental pemphigus.

"35-1600Z was used in immunohistochemistry - paraffin section to test if blockade of the caspase pathway prevents blistering caused by pemphigus autoantibodies"

Authors: Pacheco-Tovar D,López-Luna A,Herrera-Esparza R,Avalos-Díaz E

**Year**
2011

**Dilution**
1:20

### More applications with references on thermofisher.cn