

# 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 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 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.

## Western Blot (3)

<p><b>Oncology reports</b></p> <p><b>In vitro cytotoxicity of 4'-OH-tamoxifen and estradiol in human endometrial adenocarcinoma cells HEC-1A and HEC-1B.</b></p> <p>"35-1600Z was used in western blot to assess the effects of 4'-hydroxy-tamoxifen and estradiol on two human endometrial adenocarcinoma cell lines."</p> <p>Authors: Cuevas ME,Lindeman TE</p>	<p><b>Year</b> 2015</p> <p><b>Species</b> Human</p> <p><b>Dilution</b> 2 µg/ml</p>
<p><b>European journal of clinical investigation</b></p> <p><b>The effect of Longan seed polyphenols on colorectal carcinoma cells.</b></p> <p>Authors: Chung YC,Lin CC,Chou CC,Hsu CP</p>	<p><b>Year</b> 2010</p> <p><b>Species</b> Human</p>

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## Immunohistochemistry (Paraffin) (2)

<p><b>Oncology letters</b></p> <p><b>Cytokeratin and protein expression patterns in squamous cell carcinoma of the oral cavity provide evidence for two distinct pathogenetic pathways.</b></p> <p>"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"</p> <p>Authors: Frohwitter G,Buerger H,VAN Diest PJ,Korsching E,Kleinheinz J,Fillies T</p>	<p><b>Year</b> 2016</p> <p><b>Dilution</b> 1:100</p>
<p><b>Autoimmune diseases</b></p> <p><b>The caspase pathway as a possible therapeutic target in experimental pemphigus.</b></p> <p>"35-1600Z was used in immunohistochemistry - paraffin section to test if blockade of the caspase pathway prevents blistering caused by pemphigus autoantibodies"</p> <p>Authors: Pacheco-Tovar D,López-Luna A,Herrera-Esparza R,Avalos-Díaz E</p>	<p><b>Year</b> 2011</p> <p><b>Dilution</b> 1:20</p>

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