abcam

Product datasheet

Apoptosis Western Blot Cocktail (pro/p17-caspase-3, cleaved PARP1, muscle actin) ab136812

9 References 2 Images

Overview

Product name	Apoptosis Western Blot Cocktail (pro/p17-caspase-3, cleaved PARP1, muscle actin)
Species reactivity	**Reacts with:** Human **Does not react with:** Mouse, Rat
Product overview	Cocktail of primary antibodies to detect apoptosis biomarkers caspase 3 and PARP, along with loading control muscle actin (42 kDa). The caspase 3 antibody (rabbit monoclonal) detects both the 32 kDa pro-caspase 3 as well as the p17 subunit of active caspase 3 generated by cleavage of the pro-caspase 3 at Asp175. The PARP antibody (mouse monoclonal) detects only the apoptosis-specific 89 kDa PARP fragment (cleaved-PARP) generated from the full length PARP by active caspases. Since the primary antibodies used are both mouse and rabbit, a secondary antibodies cocktail of GAM-HRP and GAR-HRP is provided.
Notes	The Apoptosis western blot cocktail (ab136812) is designed to study the induction of apoptosis in response to various stimuli. The two main components of this cocktail are monoclonal antibodies specific to caspase 3 and PARP. Caspase 3 is one of the executioner caspases activated by proteolytic cleavage during apoptosis. The rabbit caspase 3 antibody of this cocktail detects both the 32 kDa pro-caspase 3 as well as the p17 subunit of the active caspase 3 generated by cleavage of the pro-caspase 3 at Asp175. Thus the induction of apoptosis can be followed by a decrease of the pro-caspase 3 or by an increase of the p17 caspase 3. Monitoring the changes in the pro-caspase 3 is particularly advantageous, since the proportion of caspase activation can be determined from the reduction of the pro-form from analysis of control and stimulated samples. Poly [ADP-ribose] polymerase 1 (PARP) is a DNA repair enzyme that is cleaved during apoptosis by activated caspases. The mouse PARP antibody of this cocktail detects only the apoptosis-specific 89 kDa PARP fragment (cleaved-PARP). This antibody does not react with the full-length PARP. Combined, these two antibodies provide biomarkers of apoptosis. The rabbit muscle actin antibody is provided as a loading control for sample to sample normalization. Since the primary antibodies are both mouse and rabbit, the cocktail of HRP-conjugated goat anti-rabbit and anti-mouse secondary antibodies is provided for convenience. The targets are easily resolved by Western blot given their different molecular weights.
Tested applications	**Suitable for:** WB

Properties

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

Components	200 µl
100X HRP Conjugated Secondary Antibody Cocktail	1 x 500µl
250X Primary Antibody Cocktail	1 x 200µl

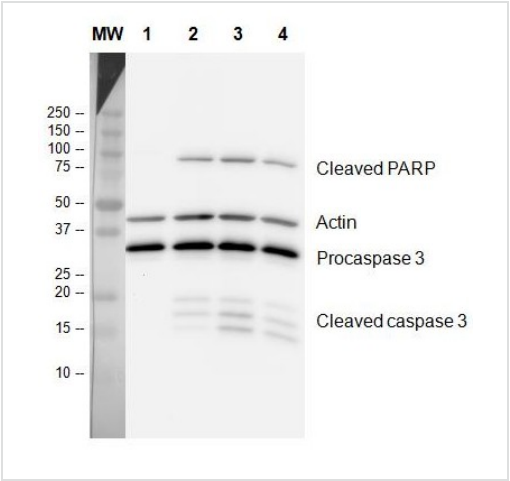
Applications

Our Abpromise guarantee covers the use of **ab136812** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. 1/250 dilution for primary antibodies 1/100 dilution for secondary antibodies Suggested dilution buffer: 5% milk/PBS+0.05% Tween 20

Images



Western Blot

Lane 1: Jurkat cells, untreated

Lane 2: Jurkat cells treated with anti-FAS for 2 hours

Lane 3: Jurkat cells treated with anti-FAS for 4 hours

Lane 4: Jurkat cells treated with anti-FAS for 6 hours

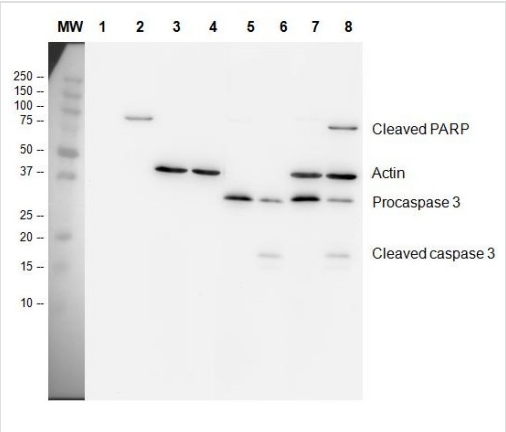
All lysates at 20 µg/lane

Primary antibodies

All lanes: 250X Primary Antibodies Cocktail, 1/250 dilution.

Secondary antibodies

All lanes: 100X HRP-Conjugated Secondary Antibodies Cocktail (ab136812), 1/100 dilution.



Western Blot

Lanes 1, 3, 5, 7: (ab136806) HeLa, vehicle treated
Lanes 2, 4, 6, 8: (ab136806) HeLa, 1 µM staurosporine (ab120056), 4 hours
All lysates at 20 µg per lane.

Primary antibodies

Lanes 1, 2: Cleaved PARP
Lanes 3, 4: Actin
Lanes 5, 6: Caspase 3
Lanes 7, 8: ab136812 250X Primary Antibodies Cocktail, 1/250 dilution

Secondary antibodies

All lanes: ab136812 100X HRP-Conjugated Secondary Antibodies Cocktail, 1/100 dilution.

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