

Product Datasheet

Apoptosis Detection Antibody Pack NBP2-25080

Unit Size: 4 Vials

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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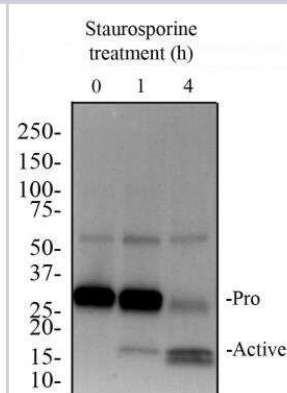
NBP2-25080**Apoptosis Detection Antibody Pack**

Product Information	
Unit Size	4 Vials
Concentration	Concentration of individual antibodies may be found on the vial label. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Product Description	
Species	Human, Mouse, Rat
Reactivity Notes	See individual datasheets of components for their validated species
Specificity/Sensitivity	The Apoptosis Detection Antibody Bundle contains monoclonal antibodies to three key apoptosis markers: caspase-3, caspase-8, and cleaved PARP. The caspase-3 and -8 antibodies both recognize pro and cleaved forms. The PARP antibody specifically recognizes the 89 kDa PARP fragment and does not recognize the full-length protein.
Immunogen	See individual datasheets.
Kit Components	NB100-56708: Caspase-3 Antibody (31A1067) - (Pro and Active) - BSA Free, NB100-56599: PARP Antibody (194C1439) - Cleaved - BSA Free, NB100-56527: Caspase-8 Antibody (90A992) - BSA Free, HAF007: Goat anti-Mouse IgG Secondary Antibody [HRP]
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, CyTOF-ready
Recommended Dilutions	Western Blot, Simple Western, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin, CyTOF-ready
Application Notes	See individual datasheets of components for their validated applications

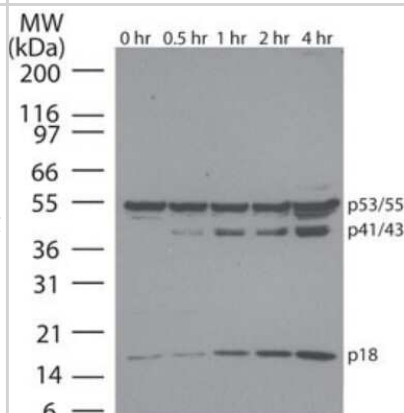


Images

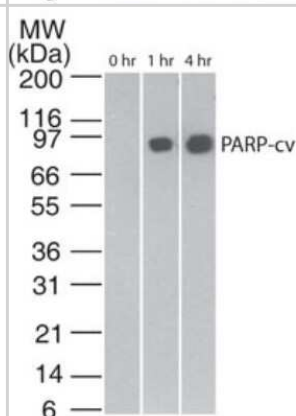
Western Blot: Apoptosis Detection Antibody Pack [NBP2-25080] - Image of anti-Caspase 3 (31A1067). Whole cell protein from Jurkat cells treated with and without 2 μ M staurosporine as indicated was separated on a 4-15% gel by SDS-PAGE, transferred to 0.2 μ m PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 5 μ g/ml anti-Caspase 3 (NB100-56708) in 1% milk, and detected with an anti-mouse HRP secondary antibody using a Femto sensitivity chemiluminescence reagent. Note the detection of both pro-caspase 3 at 35 kDa and the cleaved active caspase 3 at 15-17 kDa.



Western Blot: Apoptosis Detection Antibody Pack [NBP2-25080] - Analysis of Caspase-8 in Jurkat cells using at 1 μ g/ml. Cells were treated with 2 μ M staurosporine for different time periods. Caspase-8 activation is detected in western blot by the presence of Caspase-8 cleavage fragments. The antibody detected both pro (full-length) and active (cleaved) Caspase-8, depending on the treatment time points. A basal level of endogenously cleaved Caspase-8 can be seen in untreated Jurkat cells. this antibody was used in this test.



Western Blot: Apoptosis Detection Antibody Pack [NBP2-25080] - Analysis of cleaved PARP in staurosporin-treated Jurkat cells at various time points, using at 2 μ g/ml. The band corresponding to cleaved PARP is only seen in the treated samples. anti-mouse Ig HRP conjugate was used in this test.



Publications

Ko CH, Shen SC, Chen YC. Hydroxylation at C4' or C6 is essential for apoptosis-inducing activity of flavanone through activation of the caspase-3 cascade and production of reactive oxygen species. Free Radic Biol Med. 2004-04-01 [PMID: 15019974]

Jarskog LF, Gilmore JH, Glantz LA et al. Caspase-3 activation in rat frontal cortex following treatment with typical and atypical antipsychotics. Neuropsychopharmacology. 2007-01-01 [PMID: 16641945] (WB, Rat)

Details:
IMG-144A product citation: Rat frontal cortex tissue: WB (Figs 1a and b, Table 1), IHC (frozen), Fig 3a and b.



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Limitations

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