

Datasheet for ABIN3188045

anti-Caspase 3 antibody[Go to Product page](#)**1** Validation**2** Images**1** Publication

Overview

| | |
|--------------|---------------------------------------------------|
| Quantity: | 100 µL |
| Target: | Caspase 3 (CASP3) |
| Reactivity: | Human, Mouse, Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Caspase 3 antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

Product Details

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|------------------|--------------------------------------------------------------------------------------------------------------------|
| Immunogen: | Recombinant Protein |
| Clone: | 5E1 |
| Isotype: | IgG1 |
| Specificity: | The antibody detects endogenous Active Caspase-3 protein. |
| Characteristics: | Mouse Monoclonal to Active Caspase-3. |
| Purification: | The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen. |

Target Details

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|-------------------|----------------------------------------------|
| Target: | Caspase 3 (CASP3) |
| Alternative Name: | Caspase-3 (CASP3 Products) |

Target Details

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|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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

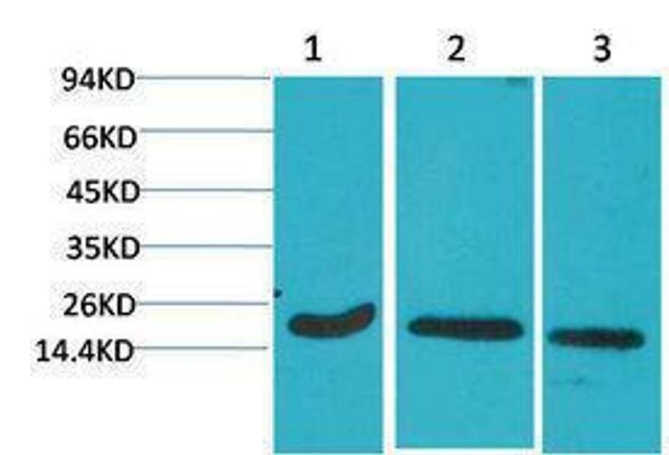
| | |
|--------------------|------------------------------|
| Application Notes: | WB 1:500-1000, IHC 1:100-200 |
| Restrictions: | For Research Use only |

Handling

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|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format: | Liquid |
| Buffer: | Liquid in PBS containing 50 % glycerol, 0.5 % BSA and 0.02 % sodium azide. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Avoid repeated freeze/thaw cycles. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. |

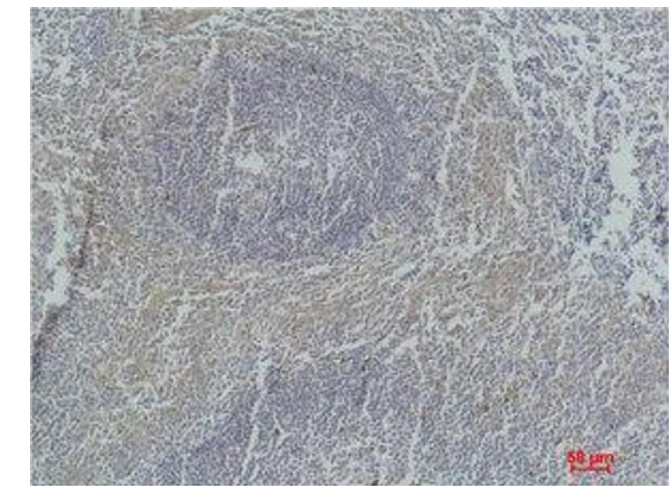
Publications

| | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product cited in: | Bigeard, Rayapuram, Bonhomme, Hirt, Pflieger: "Proteomic and phosphoproteomic analyses of chromatin-associated proteins from Arabidopsis thaliana." in: Proteomics , Vol. 14, Issue 19, pp. 2141-55, (2014) (PubMed). |
| | Schnell, Han, Miki, Johnson: "Soybean peroxidase propeptides are functional signal peptides and increase the yield of a foreign protein." in: Plant cell reports , (2010) (PubMed). |
| | Hinton, Sennoune, Bond, Fang, Reuveni, Sahagian, Jay, Martinez-Zaguilan, Forgac: "Function of a subunit isoforms of the V-ATPase in pH homeostasis and in vitro invasion of MDA-MB231 human breast cancer cells." in: The Journal of biological chemistry , Vol. 284, Issue 24, pp. 16400-8, (2009) (PubMed). |



Western Blotting

Image 1.



Immunohistochemistry

Image 2. Immunohistochemistry (IHC) analysis of paraffin-embedded Human Tonsil Tissue using Active Caspase-3 Monoclonal Antibody.



Successfully validated (Western Blotting (WB))

by [Laboratory of Neurobiology, Department of Veterinary Sciences, University of Turin](#)

Report Number: 100061

Date: Aug 31 2016

| | |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target: | Caspase 3 (active) |
| Method validated: | Western Blotting (WB) |
| Positive Control: | Mouse cerebellar tissue samples at post natal day P5 |
| Notes: | The antibody recognized both the active and non-active form of Caspase3 and worked well in the experimental conditions tested. The product is therefore indicated for the WB use. |
| Secondary Antibody: | ABIN3179097 |
| Protocol: | <ul style="list-style-type: none"> • Mouse cerebellar tissue samples at post natal day (P) 5 were lysed in 150 µL of lysis buffer. • Protein concentration was determined using Bradford reagen (Sigma B6916) according to the manufacturer's recommendation. • 30 and 60µg total protein were denatured in sample buffer for 5min at 95°C and then cooled on ice. • Proteins were separated on a denaturing homemade 15% SDS-PAGE gel at a constant voltage of 180V for 70min. • Proteins were transferred in a transfer buffer to nitrocellulose membrane (Amersham Biosciences, RPN203D, lot 18100/66/0207) at constant amperage of 400mA for 60min. • Blocking of the membrane with blocking solution (0.01M PBS, 0.1% tween, 2% Bovine Serum Albumin) for 1h at RT. • Incubation with the primary antibody ABIN3179097 diluted 1:1000 in blocking solution ON at 4°C. • 3 washes in PBS-0.1% tween for 15min at RT. • Incubation with the anti-mouse horseradish peroxidase (HRP) secondary antibody (Santa Cruz, SC2005, lot H0406) diluted 1:10000 in blocking solution for 1h at RT. • Washes in PBS-0.1% tween for 15min at RT. • Chemiluminescence detection using homemade ECL (1min incubation at RT) and revealed on HYPERFILM EGL (Amersham Biosciences, RPN2013K, lot 04450300115); exposure 30sec. • Proteins were revealed using the ECL technique on western blot films for 30 seconds. |
| Experimental Notes: | <ul style="list-style-type: none"> • A band around 30-35 kDa and a band around 17kDa were detected with the experimental procedures previously described. • A protein load of 30µg is recommended, as in the 60µg load, weak non-specific bands were detected around 15 and 30kDa. |

Validation image no. 1 for anti-Caspase 3 (CASP3) antibody (ABIN3179097)

P5 mouse cerebellum, 30 seconds exposition. 60µg (left) and 30µg (right) protein loaded. The inactive procaspase 3 is visible at a MW of approximately 32kDa. The p17 subunit of active Casp3 is revealed between the 15kDa and 20kDa bands of the MW marker.

