Datasheet for ABIN7251013

anti-Caspase 3 p17 (Cleaved-Asp175) antibody

1 Validation

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Overview

Quantity:	200 µL
Target:	Caspase 3 p17
Binding Specificity:	Cleaved-Asp175
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	Synthesized peptide derived from the Internal region of human Caspase-3 p17
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

Target Details

Target:	Caspase 3 p17
Alternative Name:	CASP3 p17
Background:	Involved in the activation cascade of caspases responsible for apoptosis execution. At the

Target Details

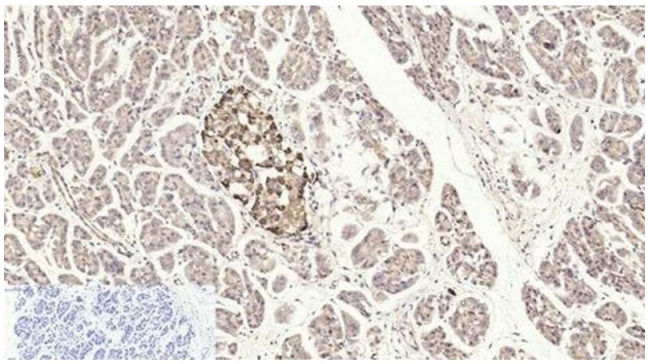
	onset of apoptosis it proteolytically cleaves poly(ADP-ribose) polymerase (PARP) at a '216-Asp-Gly-217' bond. Cleaves and activates sterol regulatory element binding proteins (SREBPs) between the basic helix-loop-helix leucine zipper domain and the membrane attachment domain. Cleaves and activates caspase-6, -7 and -9. Involved in the cleavage of huntingtin.
Molecular Weight:	Observed_MW: 20 kDa Calculated_MW: 32 kDa
UniProt:	P42574

Application Details

Application Notes:	WB 1:500-2000, IHC 1:50-300, IF 1:50-300
Restrictions:	For Research Use only

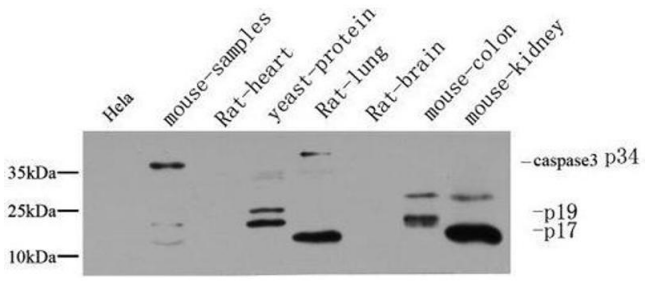
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS with 0.02 % sodium azide, 0.5 % BSA and 50 % glycerol, pH 7.4
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.



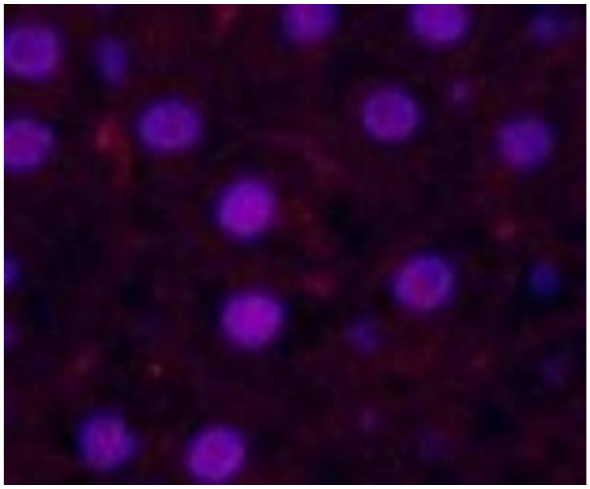
Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemistry of paraffin-embedded Human stomach cancer tissue using Cleaved-CASP3 p17 (D175) Polyclonal Antibody at dilution of 1:200.



Western Blotting

Image 2. Western Blot analysis of various cells using Cleaved-CASP3 p17 (D175) Polyclonal Antibody at dilution of 1:1000.



Immunofluorescence

Image 3. Immunofluorescence analysis of Rat liver tissue using Cleaved-CASP3 p17 (D175) Polyclonal Antibody at dilution of 1:200.

Validation report #104629 for Immunohistochemistry (IHC)

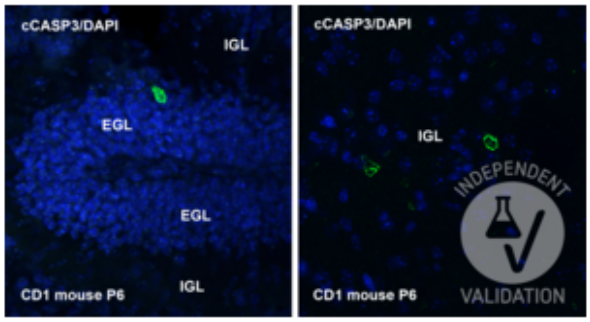
Successfully validated (Immunohistochemistry (IHC))

by Prof. Merighi, Laboratory of Neurobiology, Department of Veterinary Sciences, University of Turin

Report Number: 104629

Date: Mar 15 2025

Target:	Caspase 3 p17
Lot Number:	DX03VBDV9989
Method validated:	Immunohistochemistry (IHC)
Positive Control:	The expression of caspase 3 at P5 was already attested in our laboratory (Lossi et al., 2004).
Negative Control:	A control slice was processed for each experimental procedure, omitting the primary antibody.
Notes:	Reference: Lossi L., Tamagno I. and Merighi A. (2004) "Molecular morphology of neuronal apoptosis: analysis of Caspase 3 activation during postnatal development of mouse cerebellar cortex." J Mol Histol, 35(6):621-9.
Primary Antibody:	ABIN7251013
Secondary Antibody:	anti-rabbit Alexa Fluor 488 (Invitrogen. Lot 2541675)
Protocol:	• Sample analyzed: mouse cerebellum at post-natal day (P) 5–6. • Paraffin-embedded slices (7 µm thick) were deparaffinized and rehydrated through a graded series of alcohols and distilled water (dH_2O). • Sections were blocked in ovalbumin 1% 1 hour at room temperature. • Antigen retrieval was performed in all the sections by microwave treatment (1 minute at 750 W + 1 minute at 250 W in citrate buffer pH 6). • 3×5 minutes washing in 0.01 M PBS. • Sections were incubated with the primary antibody at the following dilutions of 1:50/1:100/1:200, overnight at room temperature (primary antibody was diluted in PLL/BSA/PBS diluent). • 3×5 minutes washing in 0.01 M PBS. • Incubation with the anti-rabbit secondary antibody 1:400 in PLL/BSA/PBS diluent, 1 hour at room temperature. • 3×5 minutes washing in 0.01 M PBS. • Nuclear counterstaining was performed with DAPI 1 µg/mL, 2 minutes. • 2×5 minutes washing in 0.01 M PBS. • Specimens were then mounted in Fluoroshield mounting medium (Sigma).
Experimental Notes:	Passed. The antibody works in IHC-P at concentrations from 1:50-1:200



Validation image no. 1 for anti-Caspase 3 p17 (Cleaved-Asp175) antibody (ABIN7251013)

Expression of cleaved caspase 3 (cCASP3) in P6 mouse cerebellum. An immunoreactive Purkinje neuron (left) and two cCASP3-positive granule cells (right) after immunostaining with ABIN7251013 and nuclear counterstaining with 4',6-Diamidine-2'-phenylindole dihydrochloride (DAPI). EGL = external granular layer of the cerebellar cortex; IGL = internal granular layer of the cerebellar cortex.