Datasheet for ABIN724205

anti-Caspase 8 antibody (AA 411-482)

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Overview

Quantity:	100 µL
Target:	Caspase 8 (CASP8)
Binding Specificity:	AA 411-482
Reactivity:	Human, Mouse, Rat, Monkey, Pig, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Caspase 8 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from rat CASP8 subunit p10
Isotype:	IgG
Cross-Reactivity:	Human, Monkey, Mouse, Pig, Rat, Sheep
Predicted Reactivity:	Dog,Cow,Chicken
Purification:	Purified by Protein A.

Target Details

Target:	Caspase 8 (CASP8)

Target Details

Alternative Name:	Caspase 8 (CASP8 Products)
Background:	Synonyms: MACH, Mch5, FLICE, CASP-8, Caspase-8, Casp8 Background: Most upstream protease of the activation cascade of caspases responsible for the TNFRSF6/FAS mediated and TNFRSF1A induced cell death. Binding to the adapter molecule FADD recruits it to either receptor. The resulting aggregate called death-inducing signaling complex (DISC) performs CASP8 proteolytic activation. The active dimeric enzyme is then liberated from the DISC and free to activate downstream apoptotic proteases. Proteolytic fragments of the N-terminal propeptide (termed CAP3, CAP5 and CAP6) are likely retained in the DISC. Cleaves and activates CASP3, CASP4, CASP6, CASP7, CASP9 and CASP1. May participate in the GZMB apoptotic pathways. Cleaves ADPRT. Hydrolyzes the small-molecule substrate, Ac-Asp-Glu-Val-Asp-|-AMC. Likely target for the cowpox virus CRMA death inhibitory protein.
Gene ID:	12370
UniProt:	Q9JHX4
Pathways:	Apoptosis, Caspase Cascade in Apoptosis, TLR Signaling, Activation of Innate immune Response, Tube Formation, Positive Regulation of Endopeptidase Activity, Toll-Like Receptors Cascades

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 μg/μL

Handling

Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

Product cited in:

Zhang, Zhao, Zhang, Hao, Yu, Min, Li, Ma, Chen, Yi, Tang, Meng, Liu, Wang, Shen, Zhang: " Decrease in male mouse fertility by hydrogen sulfide and/or ammonia can Be inheritable." in: **Chemosphere**, Vol. 194, pp. 147-157, (2018) (PubMed).

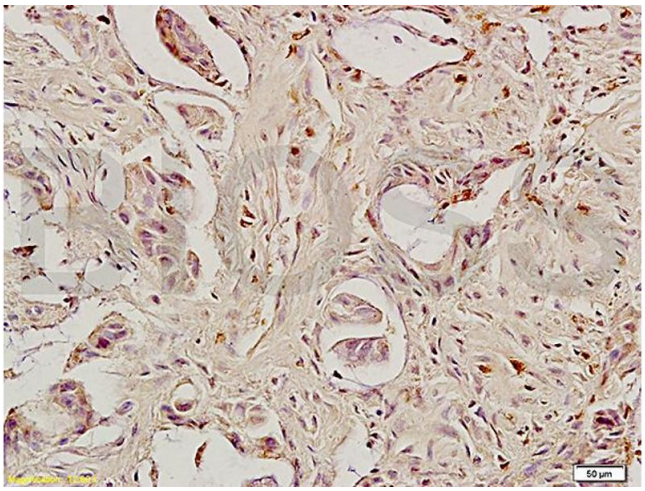
Tulsulkar, Glueck, Hinds, Shah: "Ginkgo biloba Extract Prevents Female Mice from Ischemic Brain Damage and the Mechanism Is Independent of the HO1/Wnt Pathway." in: **Translational stroke research**, Vol. 7, Issue 2, pp. 120-31, (2016) (PubMed).

Akinrinde, Oyagbemi, Omobowale, Asenuga, Ajibade: "Alterations in blood pressure, antioxidant status and caspase 8 expression in cobalt chloride-induced cardio-renal dysfunction are reversed by Ocimum gratissimum and gallic acid in Wistar rats." in: **Journal of trace elements in medicine and biology : organ of the Society for Minerals and Trace Elements (GMS)**, Vol. 36, pp. 27-37, (2016) (PubMed).

Gao, Liu, Li, Wu, Peng, Jing: "Hispidulin induces mitochondrial apoptosis in acute myeloid leukemia cells by targeting extracellular matrix metalloproteinase inducer." in: **American journal of translational research**, Vol. 8, Issue 2, pp. 1115-32, (2016) (PubMed).

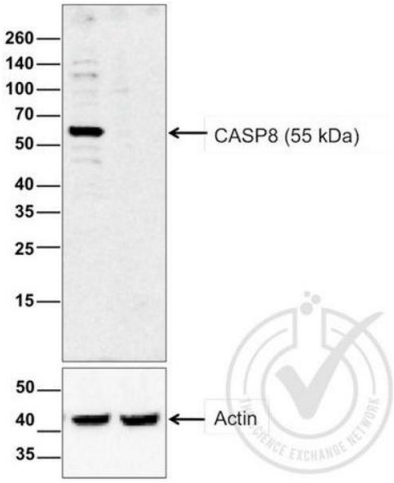
Daverey, Agrawal: "Curcumin alleviates oxidative stress and mitochondrial dysfunction in astrocytes." in: **Neuroscience**, Vol. 333, pp. 92-103, (2016) (PubMed).

There are more publications referencing this product on: Product page



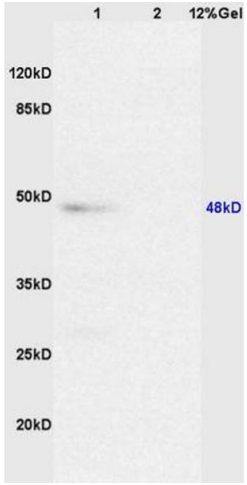
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human rectal carcinoma labeled with Anti-Caspase-8 Polyclonal Antibody, Unconjugated (ABIN724205) 1:200 followed by conjugation to the secondary antibody and DAB staining



Western Blotting

Image 2. Image provided by the Independent Validation Program (badge number 29759). Lane 1: HeLa cell extract, Lane 2: c6/36 mosquito cell extract (non-reactivespecies) probed with Rabbit Anti-Caspase 8 Polyclonal Antibody, Unconjugated at 1:200 overnight at 4˚C. Followed by conjugation to secondary antibody at 1:20000 for 60 min at 26˚C.



SDS-PAGE

Image 3. L1 mouse liver lysates L2 mouse spleen lysates probed with Anti Caspase 8 Polyclonal Antibody, Unconjugated (ABIN724205) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 12kD. Observed band size:48kD.

Please check the product details page for more images. Overall 5 images are available for ABIN724205.

Successfully validated (Western Blotting (WB))

by Alamo Laboratories Inc

Report Number: 029759

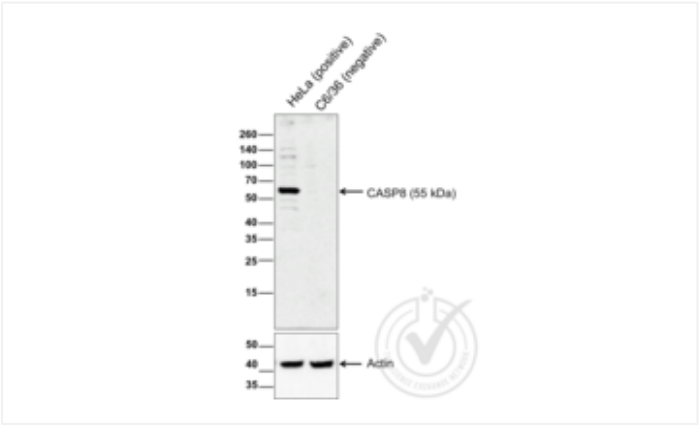
Date: Jul 03 2014

Lot Number:	131127
Method validated:	Western Blotting (WB)
Positive Control:	HeLa cells
Negative Control:	c6/36 mosquito cells (non-reactive species)
Notes:	A strong band was observed at the correct molecular weight in the positive control sample. No major bands were observed in the negative sample.
Primary Antibody:	- Antigen: Caspase 8, Apoptosis-Related Cysteine Peptidase (CASP8) (1:200 dilution) - Catalog number: ABIN724205 - Supplier: Bioss - Supplier catalog number: bs-0052R - Lot number: 131127
Secondary Antibody:	- Antigen: Goat Anti-Rabbit IgG (H + L)-HRP Conjugate (1:20,000 dilution) - Supplier: Bio-Rad - Catalog number: #170-6515 - Lot number: L170-6515
Controls:	• Positive control: HeLa cell extract • Negative control: c6/36 cell extract
Protocol:	• 1. Total protein extracts were boiled in 1X SDS Sample Buffer containing 1% SDS and 1.25% β-mercaptoethanol at 95°C for 5 min prior to loading. • 2. 20 µg of boiled extracts were loaded and resolved on 8-16% SDS-polyacrylamide gel. • 3. The Thermo Scientific - Spectra Multicolor Broad Range (Cat # 26634) were used as molecular mass markers. • 4. Proteins were then transferred onto PVDF membrane by wet transfer and protein transfer was confirmed with Ponceau-S staining. • 5. The PVDF membrane was incubated with 25 mL of blocking buffer [Tris Buffered Saline, pH 7.4 plus 0.1% TW20 (TBST)] containing 5% (W/V) BSA at room temperature for 1 h. • 6. The membrane was rinsed with TBST once. • 7. The membrane was immersed with the protein side up in the primary antibody solution (CASP8; 1:200) in TBST containing 5% (W/V) BSA and incubated for 16 h at 4°C. • 8. The membrane was rinsed in TBST thrice for 5 min each. • 9. The membrane was incubated in the HRP-conjugated secondary antibody solution (Goat anti-rabbit IgG-HRP; 1:20,000) in TBST containing 5% (W/V) BSA and incubated for 1 hour at room temperature (~26°C) with gentle agitation.

- 10. The membrane was rinsed thrice TBST thrice for 5 min each.
- 11. The membrane was rinsed in TBS twice for 30 s each.
- 12. Signals were detected with ECL-2 Substrate. The blot was scanned for 300 s.
- 13. The membrane was rinsed three times TBST.
- 14. Incubated in Acidic Glycine Stripping Buffer at room temperature with gentle agitation for 3 times, 10 min each.
- 15. The membrane was washed in TBST 2 times for 10 min each.
- 16. Repeated Steps 5-12 with the loading control antibody (anti-Actin; 1:6,000) and its matching secondary antibody (Goat anti-rabbit IgG-HRP; 1:20,000).

Experimental Notes:	- Nothing to note.

Image for Validation report #029759



Validation image no. 1 for anti-Caspase 8 (CASP8) (AA 411-482) antibody (ABIN724205)

Figure 1: Western blot of lysates from HeLa cells (Lane 1), and c6/36 cells (Lane 2) probed with anti-CASP8 (upper panel) or with anti-Actin for loading control (lower panel).