Datasheet for ABIN2745525

anti-Caspase 8 antibody

4 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	Caspase 8 (CASP8)
Reactivity:	Mouse
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Caspase 8 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant mouse caspase-8 (p20 subunit).
Clone:	1G12
Isotype:	IgG1
Specificity:	Recognizes the p20 subunit of mouse caspase-8. Detects bands of ~55 kDa (full-length caspase-8) and ~18 kDa (apoptosis-induced cleavage fragment) by Western blot.
Cross-Reactivity:	Mouse (Murine)
No Cross-Reactivity:	Human
Cross-Reactivity (Details):	Does not cross-react with human caspase-8.
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.1EU/µg purified protein (LAL test, Lonza).

Target Details

Target:	Caspase 8 (CASP8)
Alternative Name:	Caspase-8 (CASP8 Products)
Background:	Procaspase-8 belongs to the family of caspases. Binding of FasL to Fas leads to formation of a receptor complex at the cellular membrane, which was named DISC. The DISC consists of oligomerized receptors, the DD-containing adaptor molecule FADD, procaspase-8, procaspase-10 and c-FLIP. The DISC structure provides a platform for the oligomerization of procaspase-8 that allows two procaspase-8 homodimers to be in the close proximity leading to the initial activation of procaspase-8. At the first cleavage step, the N-terminal p43/p41 and the C-terminal p30 cleavage products are generated. Importantly, these cleavage products already possess catalytic activity. At the second cleavage step, p43/p41 and p30 are processed to p10 and p20, respectively, which leads to the generation of the active caspase-8 heterotetramer (p20/p10)2.
UniProt:	O89110
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:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

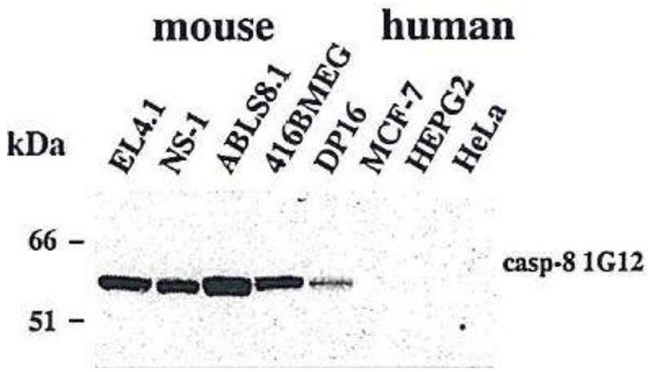
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	In PBS containing 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.
Storage:	4 °C,-20 °C
Storage Comment:	Short Term Storage: +4°C Long Term Storage: -20°C

Handling

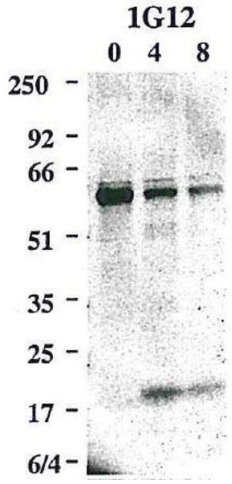
	Stable for at least 1 year after receipt when stored at -20°C.
Expiry Date:	12 months

Images



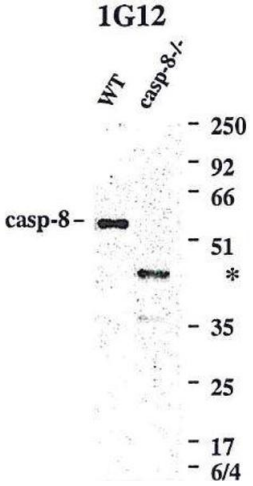
Western Blotting

Image 1. Western blot using anti-Caspase-8 (mouse), mAb (1G12) detecting endogenous caspase-8 in various mouse cell line, but not in human cell lines.



Western Blotting

Image 2. Western blot using anti-Caspase-8 (mouse), mAb (1G12) detecting the cleaved active p20 subunit of mouse caspase-8 in addition to the caspase-8 precursor, upon an apoptotic stimulus e.g. by cross-linked rhsFasL.



Western Blotting

Image 3. Western blot using anti-Caspase-8 (mouse), mAb (1G12) detecting endogenous caspase-8 in MEFs from WT mice, but not in MEFs from caspase-8-/- mice. Several smaller bands detected in the caspase-8-/- MEFs, correspond to truncated forms of caspase-8 made in the caspase-8-/- mice since only exons 1 and 2 of mouse caspase-8 were deleted in these knock-out mice and not the region encoding the p20 subunit. Note: Extra bands marked by * are only seen in lysates from caspase-8-/- MEFs and not in lysates from any WT cell lines or mouse WT tissue.

Images

Please check the product details page for more images. Overall 4 images are available for ABIN2745525.