

Datasheet for ABIN2745522

anti-Caspase 4 antibody

3 Images

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Overview

Quantity:	100 µg
Target:	Caspase 4 (CASP4)
Reactivity:	Mouse, Rat
Host:	Rat
Clonality:	Monoclonal
Conjugate:	This Caspase 4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunoprecipitation (IP), Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant mouse caspase-11 (p20 fragment).
Clone:	8A5
Isotype:	IgG1
Specificity:	Recognizes mouse and rat full-length caspase-11 protein. Detects two bands of ~38 kDa and ~43 kDa by Western blot.
Cross-Reactivity:	Mouse (Murine), Rat (Rattus)
Purity:	>95 % (SDS-PAGE)
Endotoxin Level:	<0.1EU/µg purified protein (LAL test, Lonza).

Target Details

Target:	Caspase 4 (CASP4)
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Target Details

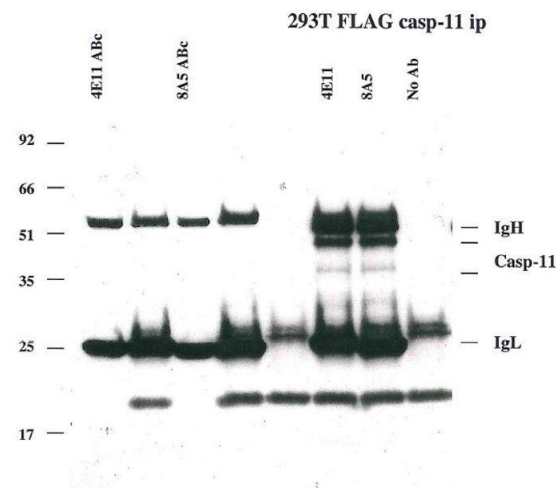
Alternative Name:	Caspase-11 (CASP4 Products)
Background:	Caspase-11 not only activates caspase-1, that is required for the maturation of proinflammatory cytokines such as interleukin-1 (IL-1) and interleukin-18 (IL-18), but also activates caspase-3, leading to cellular apoptosis under pathological conditions. In most cells, caspase-11 is only expressed upon induction with pro-inflammatory stimuli. Caspase-11 is an essential mediator of endotoxic shock and caspase-11-deficient mice are resistant to endotoxic shock. LPS-induced caspase-11 regulates lymphocyte apoptosis by activating both caspase-3 and caspase-7.
UniProt:	P70343
Pathways:	Apoptosis , Caspase Cascade in Apoptosis , Positive Regulation of Endopeptidase Activity

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

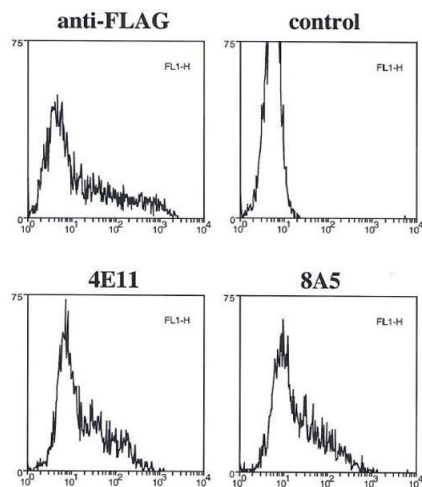
Handling

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



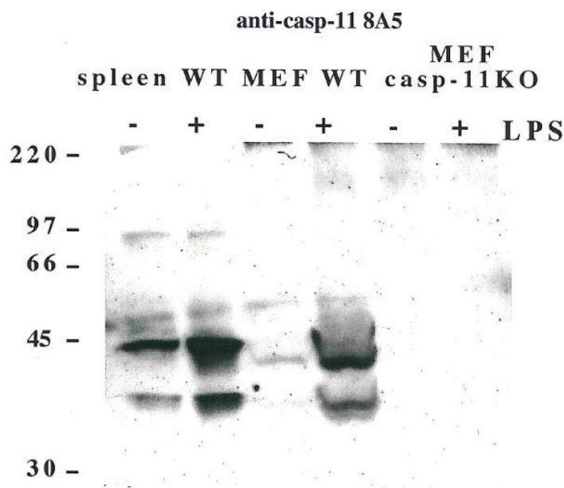
Immunoprecipitation

Image 1. Immunoprecipitation of caspase-11 using anti-caspase-11 mAbs (4E11 and 8A5)



Flow Cytometry

Image 2. Flow cytometry data of overexpressed FLAG-tagged caspase-11 in 293T cells using anti-caspase-11 mAbs (4E11 and 8A5) anti-FLAG or control.



Western Blotting

Image 3. Western blot using anti-Caspase-11 (mouse), mAb (8A5) detecting endogenous caspase-11 in mouse spleen and lymph node as two bands of 43 and 38 kDa after exposure to LPS.