



Caspase-11 Antibody [8A5]

CATALOG NUMBER: 36-182

Specifications

SPECIES REACTIVITY:	Mouse, Rat
TESTED APPLICATIONS:	ELISA, FACS, IP, WB
APPLICATIONS:	ELISA: (recombinant protein). Flow Cytometry: (overexpressed in cell lines). Immunoprecipitation: (1-5ug/ml) Western Blot: (1-2ug/ml) . Optimal conditions must be determined individually for each application.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	Recognizes mouse and rat full-length caspase-11 protein. Detects two bands of ~38kDa and ~43kDa by Western blot.
IMMUNOGEN:	Recombinant mouse caspase-11 (p20 fragment).
HOST SPECIES:	Rat

Properties

PURIFICATION:	>95% (SDS-PAGE)
PHYSICAL STATE:	Liquid
BUFFER:	Liquid. In PBS containing 0.02% sodium azide.
CONCENTRATION:	1 mg/ml
STORAGE CONDITIONS:	Stable for at least 1 year after receipt when stored at -20°C.
CLONALITY:	Monoclonal
ISOTYPE:	IgG1, kappa
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	Caspase-11 (mouse); Protease ICH-3 (mouse)
ACCESSION NO.:	P70343
PROTEIN GI NO.:	341940314
OFFICIAL SYMBOL:	Casp4
GENE ID:	12363

Background

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.
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