

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Caspase-11/Caspase-4 in direct ELISA.
Source	Monoclonal Rat IgG _{2B} Clone # 919916
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant mouse Caspase-11/Caspase-4 Pro81-Glu266 Accession # P70343
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Immunocytochemistry Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Mouse Caspase-11 (commonly referred as Caspase-4) is a member of the cysteine-aspartic acid protease family known as caspases that function in initiating apoptosis or activating proinflammatory cytokines. Mouse Caspase-11 is expressed as a 343 amino acid latent zymogen. The active caspase-11 is cleaved into two subunits, p20 (aa 81-266) and p10 (aa 286-373). Caspase-11 is one of several caspases associated with the inflammasome and plays an important role in the activation of proinflammatory cytokines. Caspase-11 is activated by an autocatalytic mechanism or by cleavage by Caspase-8 in response to ER stress or bacterial infection, and its expression and activation can be induced by exposure to LPS. The active enzyme can cleave and activate Caspase-1 which in turn activates IL-1 beta. Mouse Caspase-11 has a 59 and 89% homology to human and rat Caspase-4, respectively.

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