Mouse Caspase-11/Caspase-4 Antibody

Monoclonal Rat IgG_{2B} Clone # 919916

Catalog Number: MAB86481

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	*E. coli*-derived recombinant mouse Caspase-11/Caspase-4 Pro81-Glu266 Accession # P70343
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

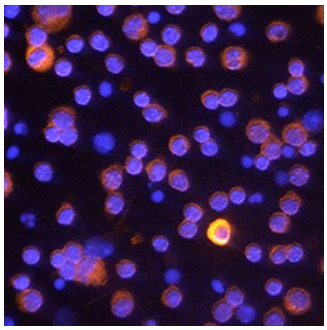
APPLICATIONS

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.*

	Recommended Concentration	Sample
Immunocytochemistry	8-25 µg/mL	See Below

DATA

Immunocytochemistry



Caspase-11/Caspase-4 in Mouse Splenocytes. Caspase-11/Caspase-4 was detected in immersion fixed mouse splenocytes treated with LPS using Rat Anti-Mouse Caspase-11/Caspase-4 Monoclonal Antibody (Catalog # MAB86481) at 25 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Rat IgG Secondary Antibody (red; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to cytoplasm. View our protocol for Fluorescent ICC Staining of Non-adherent Cells.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 proinflammitory 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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