

DESCRIPTION

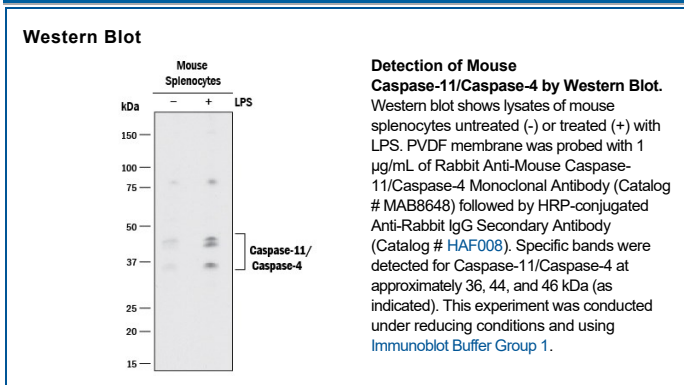
Species Reactivity	Mouse
Specificity	Detects mouse Caspase-11/Caspase-4 in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1172C
Purification	Protein A or G purified from cell culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with mouse Caspase-11/Caspase-4 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 either lyophilized or 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
Western Blot	1 µg/mL	See Below

DATA



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	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> • 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 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.