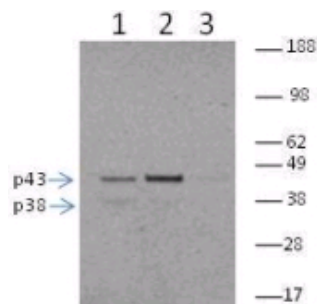


## Anti-Mouse Caspase 11 Purified

Catalog Number: 14-9935

Also Known As: Caspase11

RUO: For Research Use Only



Lysates prepared under reducing conditions from J774 cells (lane 1) or LPS stimulated mouse splenocytes (lane 2) or unstimulated splenocytes (lanes 3) were resolved by SDS-PAGE then immunoblotted with 2 µg/ml of Anti-Human Caspase 11 Purified. Bands were visualized using Anti-Rat IgG HRP.

### Product Information

Contents: Anti-Mouse Caspase 11 Purified


**REF** Catalog Number: 14-9935

Clone: 17D9

Concentration: 0.5 mg/ml


Host/Isotype: Rat IgG2a

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

 Temperature Limitation: Store at 2-8°C.

**LOT** Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

### Description

The monoclonal antibody 17D9 recognizes mouse Caspase-11, a cysteine protease that plays a role in apoptosis and inflammation. Caspase-11 exists as a 43 kDa and 38 kDa pro-caspase form and a 30 and 10 kDa active form. The 17D9 antibody recognizes p43, p38 and p30 forms. Caspase-11 is an upstream protease that activates other caspases, such as caspase-3, -7 and -1, which in turn activate IL-1β. Under Caspase-11-deficient conditions, cells are unable to process or secrete IL-1β in response to stimuli and show defects in motility, which are due to disruption of its interaction with Aip1, an actin binding protein. Caspase-11 is homologous to human Caspase-4 (around 60%). Unlike other caspases which tend to be constitutively expressed, caspase-11 is upregulated by LPS treatment in macrophages, lymphocytes and hepatocytes.

### Applications Reported

This 17D9 antibody has been reported for use in immunoblotting (WB).

### Applications Tested

This 17D9 antibody has been tested by western blotting at 1-5µg/ml on J774 cells or stimulated splenocyte lysates. Samples must be reduced for detection. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

Lee JM, Kim YJ, Ra H, Kang SJ, Han S, Koh JY, Kim YH. The involvement of caspase-11 in TPEN-induced apoptosis. *FEBS Lett.* 2008 Jun 11;582(13):1871-6. 2008 May 12.

Endo M, Mori M, Akira S, Gotoh T. C/EBP homologous protein (CHOP) is crucial for the induction of caspase-11 and the pathogenesis of lipopolysaccharide-induced inflammation. *J Immunol.* 2006 May 15;176(10):6245-53.(17D9, WB, PubMed)

### Related Products

14-4321 Rat IgG2a K Isotype Control Purified

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