

## Purified anti-mouse IL-23 (p19)

**Catalog # / Size:** 513801 / 50 µg  
513802 / 500 µg

**Clone:** MMp19B2

**Isotype:** Mouse IgG2b, κ

**Immunogen:** Mouse p19 C-terminal peptide

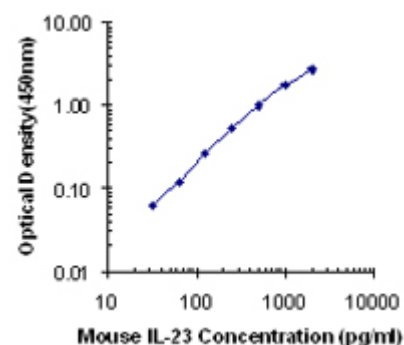
**Reactivity:** Mouse

**Preparation:** The antibody was purified by affinity chromatography.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C.

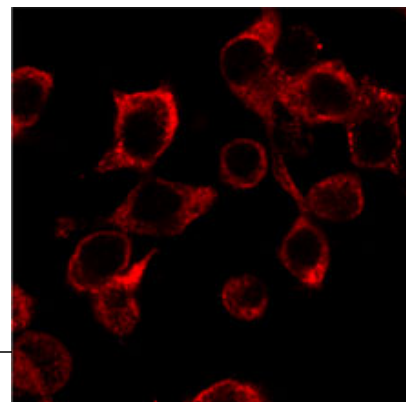


## Applications:

**Applications:** ELISA Capture - *Quality tested*  
IF - *Validated*

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA capture antibody, a concentration range of 2-6.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-23 recombinant protein ranging from 2000 to 8 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** ELISA Capture: The purified MMP19B2 antibody is useful as a capture antibody for a sandwich ELISA assay, when used in conjunction with the biotinylated C17.8 antibody as detection antibody.



*Immortalized murine bone marrow-derived macrophages were fixed with 2% paraformaldehyde, permeabilized with 0.1% Triton X100, stained with IL-23 (p19) (clone MMp19B2), followed by Alexa Fluor® 568 goat anti-mouse IgG. Image was visualized on an Olympus FV1000 confocal at 63x. Images provided by James Harris and Celia Peral de Castro, Trinity College.*

**Description:** Interleukin 23 (IL-23) is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12. IL-23 is secreted by activated macrophages and dendritic cells. Human and mouse p19 share 70% aa sequence identity. The functional IL-23 receptor complex consists of two receptor subunits, a β1 subunit shared with the IL-12 receptor (IL-12R β1) and a β2-like subunit with STAT4 binding domain, termed the IL-23-specific receptor subunit (IL-23R). IL-23 has been shown to enhance IFN-γ production by memory T cells. Additionally, mouse IL-23 (but not IL-12) can activate mouse memory T cells to produce the potent proinflammatory cytokine IL-17. IL-23 has been shown to be upregulated in certain autoimmune diseases and promote immunity in response to some viral and mycobacterial infections.

- Antigen References:**
1. Oppmann B, *et al.* 2000. *Immunity* 13:715.
  2. Parham C, *et al.* 2002. *J. Immunol.* 168:5448.
  3. Aggarwal S, *et al.* 2003. *J. Biol. Chem.* 278:1910.
  4. Verreck FA, *et al.* 2004. *Proc. Natl. Acad. Sci. USA* 101:4560.
  5. Lee E, *et al.* 2004. *J. Exp. Med.* 199:125.

**Related Products:** **Product**  
Purified Mouse IgG2b, κ Isotype Ctrl

**Clone**  
MPC-11

**Application**  
FC, ICFC, ICC, IF, IHC, IP, WB



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