

# Anti-S100A8+S100A9 Antibody

## IRS196RB



<b>Product Type:</b>	Recombinant Rabbit multiclonal IgG, primary antibodies
<b>Species reactivity:</b>	Mouse
<b>Applications:</b>	mlHC
<b>Molecular Wt:</b>	Predicted band size: 11/13 kDa

**Description:** S100 calcium-binding protein A8 (S100A8) is a protein that in humans is encoded by the S100A8 gene.[5] It is also known as calgranulin A. S100 calcium-binding protein A9 (S100A9) also known as migration inhibitory factor-related protein 14 (MRP14) or calgranulin B is a protein that in humans is encoded by the S100A9 gene. The proteins S100A8 and S100A9 form a heterodimer called calprotectin. The protein encoded by this gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis [5] and post COVID-19 condition.

**Positive control:** Mouse spleen tissue.

**Subcellular location:** Secreted, Cytoplasm, cytoskeleton, Cell membrane

**Database links:** SwissProt: P27005 Human | P31725 Human

**Recommended Dilutions:**  
mlHC 1:100

**Storage Buffer:** PBS (pH7.4), 0.1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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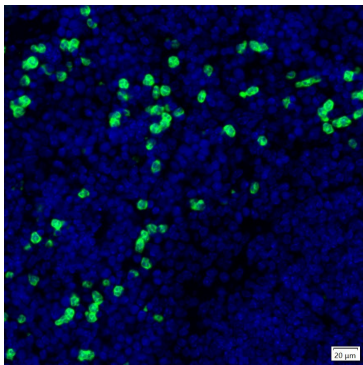
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## Images



**Fig1:** mlHC analysis of mouse spleen tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-S100A8+S100A9 antibody (IRS196RB) at 1/100 dilution. The immunostaining was performed with the IRISKitCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins at 95°C. DAPI (blue) was used as a nuclear counter stain. Image acquisition was performed with Olympus VS200 Slide Scanner.

**Note:** All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

## Background References

1. Wang Q et al. S100A8/A9: An emerging player in sepsis and sepsis-induced organ injury. *Biomed Pharmacother.* 2023 Dec
2. Wang Y et al. S100A8/A9(hi) neutrophils induce mitochondrial dysfunction and PANoptosis in endothelial cells via mitochondrial complex I deficiency during sepsis. *Cell Death Dis.* 2024 Jun

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