

Anti-S100A8+S100A9 Antibody

IRS196RB



Product Type: Recombinant Rabbit monoclonal IgG, primary antibodies

Species reactivity: Mouse

Applications: mIHC

Molecular Wt: 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:

mIHC 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.

Hangzhou Huaan Biotechnology Co.,Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn

Images

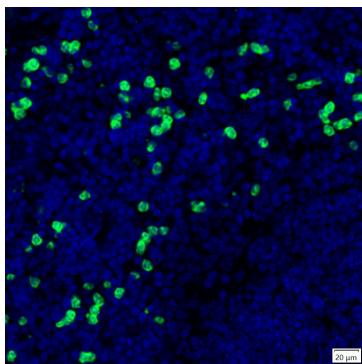


Fig1: mlHC analysis of mouse spleen tissue (Formalin/PFA-fixed paraffin-embedded sections) with Rabbit anti-S100A8+S100A9 antibody (IRS196RB) at 1/100 dilution. The immunostaining was performed with the IRISKITCmTSA Kit (900808). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins 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

Hangzhou Huaan Biotechnology Co.,Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

Service mail:support@huabio.cn

华安生物
HUABIO
www.huabio.cn