Recombinant S100A8 Monoclonal Antibody

catalog number: AN300223P

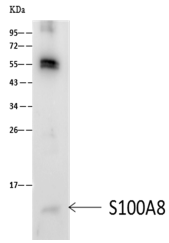
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Recombinant Human S100A8 Protein
Host	Rabbit
Isotype	IgG
Clone	7A5
Purification	Protein A
Buffer	0.2 μm filtered solution in PBS

Applications	Recommended Dilution
WB	1:500-1:1000
IP	1-2 μL/mg of lysate

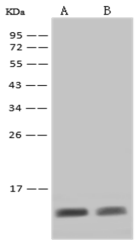
Data



Immunoprecipitation analysis using 1 μL anti-S100A8 Monoclonal Antibody and 60 μg of Immunomagnetic beads Protein A/G. Western blot was performed from the immunoprecipitate using S100A8 Monoclonal Antibody at a dilution of 1:500. Lane A:0.5 mg HL-60 Whole Cell Lysate

Observed-MW:11 kDa

Calculated-MW:11 kDa



Western Blot with S100A8 Monoclonal Antibody at dilution of 1:500. Lane A: THP-1 Whole Cell Lysate, Lane B: HL-60 Whole Cell Lysate, Lysates/proteins at 30 μg per lane.

Observed-MW:11 kDa

Calculated-MW:11 kDa

Preparation & Storage

Storage	This antibody can be stored at 2℃-8℃ for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20℃ to -80℃. Preservative-Free. Avoid repeated freeze-thaw cycles.
Shipping	Ice bag

Background

Toll-free: 1-888-852-8623
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S100A8/S100A9 HeterodimerS100A8 (also MRP8 and calgranulin A) is a 10 kDa member of the S100 family, EF-hand superfamily of Ca-binding proteins. It is produced by neutrophils and monocytes, and forms Ca2+-dependent heterodimer/heterotetramer complexes (termed calprotectin) with S100A9. It functions both intracellularly and extracellularly, where it binds to RAGE and CD36. Human S100A8 is 93 amino acids (aa) in length. It contains two EF-hand motifs (aa 12 - 47 and 46 - 81) and one high-affinity Ca2+-binding site (aa 59 - 70). There may be one splice form that shows a 15 aa substitution for the C-terminal 14 amino acids. Although mouse S100A8 is cleaved by MMP-2 after Asn21, it is unclear if human S100A8 is susceptible. Full-length human S100A8 is 57% and 74% aa identical to mouse and canine S100A8, respectively.

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