

RPCB1819

Product Information

Product SKU:	RPCB1819	Gene ID:	20201	Size:	100µg
Tag:	C-His	Reactivity:	Mouse		

Additional Information

Expression Host:	E. coli	Swissprot:	P27005
Purity:	> 90% by SDS-PAGE.		

Protein Information

Background: S100A8 is a member of the S100 protein family containing 2EF-hand calcium-binding motifs. S100 proteins are involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. Altered expression of S100A8 protein is associated with various diseases and cancers. S100A8 may have an immunoregulatory role by contributing to the regulation of fetal-maternal interactions. It may play a protective role and its absence may allow infiltration by maternal cells, a process eventually manifesting as resorption. The heterodimeric S100 protein complex S100A8/A9 which has been shown to be involved in inflammatory and neoplastic disorders. The complex can induce cell proliferation, or apoptosis, inflammation, collagen synthesis, and cell migration. S100A8/A9 has emerged as important pro-inflammatory mediator in acute and chronic inflammation. More recently, increased S100A8 and S100A9 levels were also detected in various human cancers, presenting abundant expression in neoplastic tumor cells as well as infiltrating immune cells. On the one hand, S100A8/A9 is a powerful apoptotic agent produced by immune cells, making it a very fascinating tool in the battle against cancer. It spurs the risk to induce auto-immune response and may serve as a lead compound for cancer-selective therapeutics. In contrast, S100A8/A9 expression in cancer cells has also been associated with tumor development, cancer invasion or metastasis. Altogether, its expression and potential cytokine-like function

in inflammation and cancer suggest that S100A8/A9 may play a key role in inflammation-associated cancer.

Protein Description:	High quality, high purity and low endotoxin recombinant Recombinant Mouse S100-A8 Protein , tested reactivity in E. coli and has been validated in SDS-PAGE. 100% guaranteed.
Endotoxin:	<1 EU/μg
Formulation:	Lyophilized from a 0.22 μm filtered solution of 20 mM Tris, 300 mM NaCl, pH 8.0, 10 % glycerol.
Storage:	Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.