

**Mouse Anti-S100A9/MRP14 [47-8D3]: MC0933, MC0933RTU7**

**Intended Use:** For Research Use Only

**Description:** S100A9 or MRP14, is a member of the S100 family of proteins containing two EF-hand calcium-binding motifs. It forms a heterodimer, Calprotectin, with S100A8 in a calcium-dependent manner. S100A9 may function in the inhibition of casein kinase and altered expression of this protein is associated with the disease cystic fibrosis. S100A9 is expressed in granulocytes, monocytes in peripheral blood and in infiltrating macrophages in inflammatory sites but not in normal tissue macrophages. Elevated plasma levels of S100A9 have been observed in inflammatory disorders such as chronic bronchitis, cystic fibrosis and rheumatoid arthritis. S100A9 is also detected in tumor cells in carcinomas of the liver, lung, breast and thyroid. The expression of S100A9 is correlated with tumor differentiation.

**Specifications**

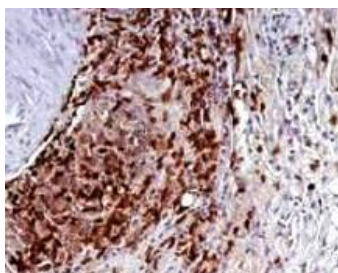
Clone:	47-8D3
Source:	Mouse
Isotype:	IgG1k
Reactivity:	Human, rat
Immunogen:	Human peripheral blood monocyte components
Localization:	Cytoplasm, membrane
Formulation:	Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN <sub>3</sub> )
Storage:	Store at 2°- 8°C
Applications:	IHC, Flow Cyt., ICC/IF
Package:	

Description	Catalog No.	Size
S100A9/MRP14 Concentrated	MC0933	1 ml
S100A9/MRP14 Prediluted	MC0933RTU7	7 ml

**IHC Procedure\***

Positive Control Tissue:	Spleen, inflammatory tissue
Concentrated Dilution:	50-200
Pretreatment:	Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30-60 minutes @ RT
Detection:	Refer to the detection system manual

\* Result should be confirmed by an established diagnostic procedure.



FFPE human gastric cancer stained with anti-S100A9 using DAB

**References:**

1. UPF1 regulates myeloid cell functions and S100A9 expression by the hnRNP E2/miRNA-328 balance. Saul MJ, et al. Sci Rep 6:31995, 2016.
2. High-throughput proteomics integrated with gene microarray for discovery of colorectal cancer potential biomarkers. Yu J, et al. Oncotarget 7:75279-75292, 2016.
3. Proteins S100A8 and S100A9 are potential biomarkers for renal cell carcinoma in the early stages: results from a proteomic study integrated with bioinformatics analysis. Zhang L, et al. Mol Med Rep 11:4093-100, 2015.
4. Pursuing type 1 diabetes mellitus and related complications through urinary proteomics. Caseiro A, et al. Transl Res., 2013.

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Rev. B