

## S100A9 (D3U8M) Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.

<b>Applications:</b> W, IP, IHC-Bond, IHC-P, IF-F, FC-FP	Reactivity: M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 14	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P31725	Entrez-Gene Id: 20202
Product Usage Information			(Frozen) /Permeabilized) dium HEPES (pH 7.5	.), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	'ml BSA, 50% glyc	Dilution 1:1000 1:50 1:800 1:800 1:100 1:100 erol and less than
Consider to a consider the		For a carrier free (BSA and azide free) version of this product see product #74641.				
Specificity/Sensit	-	S100A9 (D3U8M) Rabbit mAb recognizes endogenous levels of total S100A9 protein.  Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn98 of mouse S100A9 protein.				
S100A8 and S100A9 are calcium-binding proteins that form a noncovalent he monocytes, neutrophils, macrophages, and some epithelial cells (1,2). S100A by a tubulin-dependent mechanism during inflammatory conditions and have chemotactic functions (3-5). Extracellular S100A8/S100A9 also induces an infle endothelial cells, including induction of proinflammatory chemokines and accommodate increased vascular permeability (6). S100A8/S100A9 induces and recruits my cells (MDSC) in tumor-bearing mice (7). MDSC produce additional S100A8/S10 in a positive feedback mechanism that sustains MDSC accumulation (7). S100 expressed in psoriatic skin, where it directly upregulates transcription of concontributes to disease (8). In addition, tumor-infiltrating myeloid cells induced S100A9 in cancer cells, which increases invasiveness and metastasis (9).					(1,2). S100A8 and ons and have anti- uces an inflamma- ines and adhesion of the cruits myeloid-or (5100A8/S100A9 to (7). S100A8/S1 otion of complem cells induce express.	S100A9 are secreted microbial and atory response in molecules and derived suppressor hemselves, resulting 00A9 is also highly ent protein C3, which
1. Odink, K. et al. (1987) Nature 330, 80-2. 2. Edgeworth, J. et al. (1991) J Biol Chem 266, 7706-13. 3. Rammes, A. et al. (1997) J Biol Chem 272, 9496-502. 4. Steinbakk, M. et al. (1990) Lancet 336, 763-5. 5. Ryckman, C. et al. (2003) J Immunol 170, 3233-42. 6. Viemann, D. et al. (2005) Blood 105, 2955-62. 7. Sinha, P. et al. (2008) J Immunol 181, 4666-75. 8. Schonthaler, H.B. et al. (2013) Immunity 39, 1171-81. 9. Lim, S.Y. et al. (2016) Oncogene 35, 5735-45.						
Curation Boardinite		9. Lim, S.Y. et al. (2016)	) <i>Uncogene</i> 35, 573	5-45.		

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Western Blot Buffer** 

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

W: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry

(Paraffin) IF-F: Immunofluorescence (Frozen) FC-FP: Flow Cytometry (Fixed/Permeabilized)

**Cross-Reactivity Key** 

M: Mouse R: Rat

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