7310

## S100A8 (E4F8V) XP<sup>®</sup> Rabbit mAb



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<b>Applications:</b> W, IHC-Bond, IHC-P	<b>Reactivity:</b> M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 9	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P27005	<b>Entrez-Gene Id:</b> 20201		
Product Usage Information		<b>Application</b> Western Blotting IHC Leica Bond Immunohistochemist		5) 150 mM NoCl 100 ug	<b>Dilution</b> 1:1000 1:1600 - 1:640 1:1600 - 1:640	00		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody. For a carrier-free (BSA and azide free) version of this product see product #70802.						
Specificity/Sen	sitivity	S100A8 (E4F8V) XP $^{ m  extsf{8}}$ Rabbit mAb recognizes endogenous levels of total S100A8 protein.						
Source / Purification Monoclonal antibody is produced by immunizing animals with mou					ouse S100A8 recom	binant protein.		
Background		S100A8 and S100A9 are calcium-binding proteins that form a noncovalent heterodimer present in monocytes, neutrophils, macrophages, and some epithelial cells (1,2). S100A8 and S100A9 are secreted by a tubulin-dependent mechanism during inflammatory conditions and have antimicrobial and chemotactic functions (3-5). Extracellular S100A8/S100A9 also induces an inflammatory response in endothelial cells, including induction of proinflammatory chemokines and adhesion molecules and increased vascular permeability (6). S100A8/S100A9 induces and recruits myeloid-derived suppressor cells (MDSC) in tumor-bearing mice (7). MDSC produce additional S100A8/S100A9 themselves, resulting in a positive feedback mechanism that sustains MDSC accumulation (7). S100A8/S100A9 is also highly expressed in psoriatic skin, where it directly upregulates transcription of complement protein C3, which contributes to disease (8). In addition, tumor-infiltrating myeloid cells induce expression of S100A8 and S100A9 in cancer cells, which increases invasiveness and metastasis (9).						
Background Re	ferences	<ol> <li>Odink, K. et al. (1987) Nature 330, 80-2.</li> <li>Edgeworth, J. et al. (1991) J Biol Chem 266, 7706-13.</li> <li>Rammes, A. et al. (1997) J Biol Chem 272, 9496-502.</li> <li>Steinbakk, M. et al. (1990) Lancet 336, 763-5.</li> <li>Ryckman, C. et al. (2003) J Immunol 170, 3233-42.</li> <li>Viemann, D. et al. (2005) Blood 105, 2955-62.</li> <li>Sinha, P. et al. (2008) J Immunol 181, 4666-75.</li> <li>Schonthaler, H.B. et al. (2013) Immunity 39, 1171-81.</li> <li>Lim, S.Y. et al. (2016) Oncogene 35, 5735-45.</li> </ol>						
Species Reactiv	ʻity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	uffer	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 Ke	ey .	W: Western Blotting IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)						
Cross-Reactivit	у Кеу	M: Mouse						
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