## S100A6 (D3H3W) Rabbit mAb





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Applications: W, IP	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 10	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #P06703	Entrez-Gene Id: 6277	
Product Usage Information	2	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:50		
Storage				ō), 150 mM NaCl, 100 μg ot aliquot the antibody.		ol and less than	
Specificity/Sensitivity		S100A6 (D3H3W) Rabbit mAb recognizes endogenous levels of total S100A6 protein. This antibody also cross-reacts with unidentified proteins at 40 kDa and 60 kDa.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp65 of human S100A6 protein.					
Background		Despite their relatively small size (8-12 kDa) and uncomplicated architecture, S100 proteins regulate a variety of cellular processes, such as cell growth and motility, cell cycle progression, transcription, and differentiation. To date, 25 members have been identified, including S100A1-S100A18, trichohyalin, filaggrin, repetin, S100P, and S100Z, making it the largest group in the EF-hand, calcium-binding protein family. Interestingly, 14 S100 genes are clustered on human chromosome 1q21, a region of genomic instability. Research studies have demonstrated that significant correlation exists between aberrant S100 protein expression and cancer progression. S100 proteins primarily mediate immune responses in various tissue types but are also involved in neuronal development (1-4).					
		divalent cation in som homo- or heterodime sometimes calcium-in members show restric display unique proteir signaling pathways. Ir	e instances). Struct rs that coordinate b dependent) manne tted tissue distribut n binding partners, n addition to an intr	motifs and can bind up t ural evidence shows tha pinding partner proximit rr. Although structurally cion, are localized in spe- which suggests that eac racellular role, some S10 secreted and exhibit cyt	at S100 proteins forr by in a calcium-depe and functionally sim cific cellular compar ch plays a specific rc 0 proteins have bee	n antiparallel ndent (and hilar, individual tments, and he in various en shown to act as	
		regulation (6). In addit annexins in a calcium	tion, S100A6 interad	r of cellular processes, ir cts with a number of pro (7,8). Research studies auses a decrease in cell	oteins such as SIP, G demonstrate that a	APDH, and	
Background R	eferences	1. Heizmann, C.W. et a 2. Donato, R. (2003) <i>M</i> 3. Marenholz, I. et al. ( 4. Santamaria-Kisiel, L 5. Okazaki, K. et al. (19 6. Breen, E.C. and Tany 7. Nowotny, M. et al. (20 8. Filipek, A. and Wojd 9. Bao, L. et al. (2012)	licrosc Res Tech 60, (2004) Biochem Bio et al. (2006) Bioch (2006) Biol Chem 269 (2003) J Biol Chem 2 (2003) J Biol Chem 2 (1996) Biochel	540-51. phys Res Commun 322, em J 396, 201-14. 9, 6149-52. ochem 88, 848-54. 78, 26923-8. m J 320 ( Pt 2), 585-7.	1111-22.		
Species Reacti	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	Buffer	IMPORTANT: For west TBS, 0.1% Tween® 20		membrane with diluted shaking, overnight.	primary antibody ir	ר 5% w/v BSA, 1X	
Applications K	ey	W: Western Blotting I	<b>P:</b> Immunoprecipita	ation			

Cross-Reactivity Key	H: Human M: Mouse R: Rat Mk: Monkey
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