Revision 1		
S100A10 (4E7E10) Mouse mAb	Ce T E	<b>ell Signaling</b> снысьоду <sup>®</sup>
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<b>Applications:</b> W, IHC-P, IF-IC, FC- FP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 11	<b>Source/Isotype:</b> Mouse IgG1	<b>UniProt ID:</b> #P08207	Entrez-Gene Id: 20194
Product Usage Information		<b>Application</b> Western Blotting Immunohistochemist Immunofluorescence Flow Cytometry (Fixed	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:100 1:400 1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less tha 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sens	itivity	S100A10 (4E7E10) Mouse mAb recognizes endogenous levels of total S100A10 protein. This antibody is not known to react with other S100 family proteins.				
Source / Purifica	ation	Monoclonal antibody is generated by immunizing animals with a recombinant fragment of human S100A10 protein expressed in <i>E. coli.</i> The antibody is affinity purified by Protein G chromatography.				
Background		variety of cellular pro differentiation. To dat filaggrin, repetin, S10 protein family. Intere genomic instability. R aberrant S100 proteir responses in various Each S100 monomer divalent cation in som homo- or heterodime sometimes calcium-ir members show restri display unique protei signaling pathways. I	esses, such as cell e, 25 members hav 0P, and S100Z, mak stingly, 14 S100 gen esearch studies hav expression and cau tissue types but are bears two EF-hand n e instances). Struct rs that coordinate b idependent) manne cted tissue distribut n binding partners, n addition to an intr	ba) and uncomplicated and growth and motility, cell e been identified, includi ing it the largest group i es are clustered on hum re demonstrated that sig neer progression. S100 p also involved in neurona motifs and can bind up to ural evidence shows that inding partner proximity r. Although structurally a ion, are localized in spec which suggests that eacl acellular role, some S100 secreted and exhibit cyto	cycle progression, ng S100A1-S100A n the EF-hand, calc an chromosome 1 nificant correlatior roteins primarily r al development (1- b two molecules of t S100 proteins for y in a calcium-depe and functionally sir ific cellular compa h plays a specific r D proteins have be	transcription, and 18, trichohyalin, ium-binding q21, a region of n exists between nediate immune 4). calcium (or other m antiparallel endent (and nilar, individual ritments, and ole in various en shown to act as
		annexin A2 (ANXA2) a interactions with the complex or actin (5-7) to its interaction and as 5-HT1B, TRPV5, AS	nd may act as a brid plasma membrane . S100A10 has been regulation of neuro IC1, TASK1, and Nav e activation and inv	pactin 1 light chain) form dge between the plasma (via ANXA2) and various hypothesized to play a o transmitter receptors an (1.8 (8-10). More recently vasion via its ability to bir	membrane and ac protein partners su ritical role in neur d neuron-specific s S100A10 has also	ctin cytoskeleton via uch as the SNARE onal signaling due ion channels such been shown to
Background Ref	erences	1. Heizmann, C.W. et 4 2. Donato, R. (2003) A 3. Marenholz, I. et al. 4. Santamaria-Kisiel, I 5. Illien, F. et al. (2010 6. Umbrecht-Jenck, E. 7. Jung, M.J. et al. (20 8. van de Graaf, S.F. e 9. Girard, C. et al. (20 10. Donier, E. et al. (20 11. O'Connell, P.A. et 12. Swisher, J.F. et al. (20	Aicrosc Res Tech 60, (2004) Biochem Bio et al. (2006) Bioch ) Biochim Biophys A et al. (2010) Traffic 0) Exp Cell Res 316, t al. (2003) EMBO J 2 (2) EMBO J 21, 4439 (05) J Biol Chem 280 al. (2010) Blood 116	540-51. phys Res Commun 322, 7 em J 396, 201-14. Icta 1798, 1790-6. 11, 958-71. 1234-40. 22, 1478-87. -48. 0, 38666-72. , 1136-46.	1111-22.	

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 IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)
Cross-Reactivity Key	H: Human Mk: Monkey
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