ERG (A7L1G) Rabbit mAb			
Stol		Orders:	877-616-CELL (2355) orders@cellsignal.com
249		Support:	877-678-TECH (8324)
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For Possarch Lisa Only, Not for J	3 Trask La	ne Danvers Massa	chusetts 01923 USA
Applications: Reactiv	ity: Sensitivity: MW (kDa): Source/Isotype:	UniProt ID:	Entrez-Gene Id:
WB, IP, IHC-P, IF-IC, H M FC-FP	Endogenous 54 Rabbit IgG	#P11308	2078
Product Usage	Application		Dilution
mormation	Western Blotting		1:1000
	Immunoprecipitation		1:100
	Immunohistochemistry (Paraffin)		1:200
	Immunofluorescence (Immunocytochemistry)		1:500
	Flow Cytometry (Fixed/Permeabilized)		1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.	g/ml BSA, 50% glyce	rol and less than
	For a carrier free (BSA and azide free) version of this product see	product #45381.	
Specificity / Sensitivity	ERG (A7L1G) Rabbit mAb recognizes endogenous levels of total identity, this antibody should detect isoforms ERG1, ERG2 and EF with Fli1.	ERG protein. Based o RG3. This antibody do	on sequence bes not cross-react
Species predicted to react based on 100% sequence homology:	Rat, Hamster, Pig, Horse, Guinea Pig		
Source / Purification	Monoclonal antibody is produced by immunizing animals with a sy residues near the carboxy terminus of human ERG protein.	nthetic peptide corres	sponding to
Background	ETS-related gene (ERG) is a member of the E-26 transformation- specific DNA-binding transcription factors (1). ERG plays importar vertebrate development. Early in embryonic development, ERG is mesoderm and endothelium, where it plays a critical role in the for tract and bone development (2,3). Later in embryonic developmer pluripotency of hematopoietic stem cells, endothelial cell homeost expression is not restricted to development. In adult mouse, ERG tissues, including adrenal, cartilage, heart, spleen, lymphatic endo deregulation of ERG activity, often resulting from chromosomal re- linked to poor prognosis in a number of different cancers. Chromo EWS/ERG chimeric proteins comprised of the amino-terminal tran breakpoint region 1 (EWS) and the carboxy-terminal ETS domain Ewing's sarcoma, an aggressive bone and soft tissue tumor (9). C ERG and TLS/FUS or ERG and ELF4 have been implicated in act expression of ERG, resulting from gene fusion with the androgen- has been identified as a key driver of metastasis and marker for p	specific (ETS) family of the and highly conserved highly expressed in t mation of the vascular at, ERG functions to re asis and angiogenesi is normally expressed thelial and eosinophil arrangements, has be somal translocations sactivation domain of of ERG have been id thromosomal transloc ute myeloid leukemia driven promoter of the oor prognosis in prost	of sequence- ed roles in he embryonic r system, urogenital egulate the s (2,4-7). ERG d in endothelial cells (8). However, een implicated and generating Ewing's sarcoma entified in 5-10% of ations between (10, 11). Over- e TMPRSS2 gene, rate cancer (12).
Background References	 Adamo, P. and Ladomery, M.R. (2016) Oncogene 35, 403-14. Birdsey, G.M. et al. (2008) Blood 111, 3498-506. Vijayaraj, P. et al. (2012) Development 139, 3973-85. Ng, A.P. et al. (2011) Blood 118, 2454-61. Birdsey, G.M. et al. (2015) Dev Cell 32, 82-96. Lathen, C. et al. (2014) Circulation 130, 1179-91. McLaughlin, F. et al. (2001) Blood 98, 3332-9. Mohamed, A.A. et al. (2010) J Cancer 1, 197-208. Chen, S. et al. (2016) Genes Chromosomes Cancer 55, 340-9. 		

1/1/24, 1:48 PM	ERG (A7L1G) Rabbit mAb (#97249) Datasheet Without Images Cell Signaling Technology		
	10. Ichikawa, H. et al. (1994) <i>Cancer Res</i> 54, 2865-8. 11. Moore, S.D. et al. (2006) <i>Leuk Res</i> 30, 1037-42. 12. Tomlins, S.A. et al. (2005) <i>Science</i> 310, 644-8.		
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	WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)		
Cross-Reactivity Key	 H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected 		
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