

ERKs Induce Expression of the Transcriptional Repressor Cell Differentiation

Science Signaling

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Citation Report

#	ARTICLE	IF	CITATIONS
2	pERKING Up the BLIMP in Plasma Cell Differentiation. <i>Science Signaling</i> , 2011, 4, pe21.	1.6	8
3	Antigen Feast or Famine. <i>Science</i> , 2012, 335, 408-409.	6.0	16
4	Receptor Cross-Talk Spatially Restricts p-ERK during TLR4 Stimulation of Autoreactive B Cells. <i>Journal of Immunology</i> , 2012, 189, 3859-3868.	0.4	18
5	Focus Issue: Regulation of Lymphocyte Function. <i>Science Signaling</i> , 2012, 5, eg8.	1.6	0
6	B Cell Receptor-ERK1/2 Signal Cancels PAX5-Dependent Repression of BLIMP1 through PAX5 Phosphorylation: A Mechanism of Antigen-Triggering Plasma Cell Differentiation. <i>Journal of Immunology</i> , 2012, 188, 6127-6134.	0.4	37
7	IL-2 Requirement for Human Plasma Cell Generation: Coupling Differentiation and Proliferation by Enhancing MAPK/ERK Signaling. <i>Journal of Immunology</i> , 2012, 189, 161-173.	0.4	93
8	Molecular programming of B cell memory. <i>Nature Reviews Immunology</i> , 2012, 12, 24-34.	10.6	375
9	FCRL3 promotes TLR-induced B cell activation and suppresses plasma cell differentiation. <i>European Journal of Immunology</i> , 2013, 43, 2980-2992.	1.6	49
10	RasGRP Ras guanine nucleotide exchange factors in cancer. <i>Frontiers in Biology</i> , 2013, 8, 508-532.	0.7	49
11	Diacylglycerol Kinase \uparrow Limits B Cell Antigen Receptor-Dependent Activation of ERK Signaling to Inhibit Early Antibody Responses. <i>Science Signaling</i> , 2013, 6, ra91.	1.6	27
12	Ezrin Tunes the Magnitude of Humoral Immunity. <i>Journal of Immunology</i> , 2013, 191, 4048-4058.	0.4	30
13	The Hierarchical Process of Differentiation of Long-Lived Antibody-Secreting Cells Is Dependent on Integrated Signals Derived from Antigen and IL-17A. <i>PLoS ONE</i> , 2013, 8, e74566.	1.1	9
14	Outer Membrane Protein A (OmpA) of <i>Shigella flexneri</i> 2a Induces TLR2-Mediated Activation of B Cells: Involvement of Protein Tyrosine Kinase, ERK and NF- κ B. <i>PLoS ONE</i> , 2014, 9, e109107.	1.1	15
15	Secretion of a Truncated Osteopetrosis-associated Transmembrane Protein 1 (OSTM1) Mutant Inhibits Osteoclastogenesis through Down-regulation of the B Lymphocyte-induced Maturation Protein 1 (BLIMP1)-Nuclear Factor of Activated T Cells c1 (NFATc1) Axis. <i>Journal of Biological Chemistry</i> , 2014, 289, 35868-35881.	1.6	24
16	Emerging Roles for the FCRL Family Members in Lymphocyte Biology and Disease. <i>Current Topics in Microbiology and Immunology</i> , 2014, 382, 29-50.	0.7	41
17	HIV-1 Tat affects the programming and functionality of human CD8+ T cells by modulating the expression of T-box transcription factors. <i>Aids</i> , 2014, 28, 1729-1738.	1.0	39
18	gp49B-Mediated Negative Regulation of Antibody Production by Memory and Marginal Zone B Cells. <i>Journal of Immunology</i> , 2014, 193, 635-644.	0.4	20
19	Cyclooxygenase inhibitors inhibit antibody response through interference with MAPK/ERK pathways and BLIMP-1 inhibition. <i>Medical Hypotheses</i> , 2014, 83, 372-377.	0.8	6

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20	IRF4 Deficiency Leads to Altered BCR Signalling Revealed by Enhanced PI3K Pathway, Decreased SHIP Expression and Defected Cytoskeletal Responses. <i>Scandinavian Journal of Immunology</i> , 2015, 82, 418-428.	1.3	7
21	Regulation of B Cell Differentiation by Intracellular Membrane-Associated Proteins and microRNAs: Role in the Antibody Response. <i>Frontiers in Immunology</i> , 2015, 6, 537.	2.2	15
22	Factors Regulating Immunoglobulin Production by Normal and Disease-Associated Plasma Cells. <i>Biomolecules</i> , 2015, 5, 20-40.	1.8	28
23	MAP Kinase Cascades in Antigen Receptor Signaling and Physiology. <i>Current Topics in Microbiology and Immunology</i> , 2015, 393, 211-231.	0.7	13
24	Cdc42 is a key regulator of B cell differentiation and is required for antiviral humoral immunity. <i>Journal of Experimental Medicine</i> , 2015, 212, 53-72.	4.2	71
25	Differentiation and maintenance of long-lived plasma cells. <i>Current Opinion in Immunology</i> , 2015, 33, 64-69.	2.4	60
26	ERK2 Alone Drives Inflammatory Pain But Cooperates with ERK1 in Sensory Neuron Survival. <i>Journal of Neuroscience</i> , 2015, 35, 9491-9507.	1.7	33
27	VEGF-Mediated Induction of PRD1-BF1/Blimp1 Expression Sensitizes Tumor Vasculature to Oncolytic Virus Infection. <i>Cancer Cell</i> , 2015, 28, 210-224.	7.7	77
28	Mitochondrial function provides instructive signals for activation-induced B-cell fates. <i>Nature Communications</i> , 2015, 6, 6750.	5.8	138
29	B Cell Rab7 Mediates Induction of Activation-Induced Cytidine Deaminase Expression and Class-Switching in T-Dependent and T-Independent Antibody Responses. <i>Journal of Immunology</i> , 2015, 194, 3065-3078.	0.4	13
30	The Memory Function of the B Cell Antigen Receptor. <i>Current Topics in Microbiology and Immunology</i> , 2015, 393, 107-121.	0.7	13
31	Regulation of B cell fate by chronic activity of the IgE B cell receptor. <i>ELife</i> , 2016, 5, .	2.8	77
32	The Immunomodulatory Functions of Diacylglycerol Kinase $\hat{1}\eta$. <i>Frontiers in Cell and Developmental Biology</i> , 2016, 4, 96.	1.8	30
33	Factors That Regulate the Generation of Antibody-Secreting Plasma Cells. <i>Advances in Immunology</i> , 2016, 131, 61-99.	1.1	25
34	Regulation of B cell differentiation by the ubiquitin-binding protein TAX1BP1. <i>Scientific Reports</i> , 2016, 6, 31266.	1.6	18
35	Activation-Associated Accelerated Apoptosis of Memory B Cells in Critically Ill Patients With Sepsis. <i>Critical Care Medicine</i> , 2017, 45, 875-882.	0.4	83
36	Virus-Like Vesicles of Kaposi's Sarcoma-Associated Herpesvirus Activate Lytic Replication by Triggering Differentiation Signaling. <i>Journal of Virology</i> , 2017, 91, .	1.5	17
37	IL-2 imprints human naive B cell fate towards plasma cell through ERK/ELK1-mediated BACH2 repression. <i>Nature Communications</i> , 2017, 8, 1443.	5.8	77

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38	Mitochondrial reactive oxygen species suppress humoral immune response through reduction of CD19 expression in B cells in mice. <i>European Journal of Immunology</i> , 2017, 47, 406-418.	1.6	30
39	Altered toll-like receptor responsiveness underlies a dominant heritable defect in B cell tolerance in autoimmune New Zealand Black mice. <i>European Journal of Immunology</i> , 2018, 48, 492-497.	1.6	8
40	Grb2 and GRAP connect the B cell antigen receptor to Erk MAP kinase activation in human B cells. <i>Scientific Reports</i> , 2018, 8, 4244.	1.6	26
41	BLIMP1 transcriptionally induced by EGFR activation and post-translationally regulated by proteasome and lysosome is involved in keratinocyte differentiation, migration and inflammation. <i>Journal of Dermatological Science</i> , 2018, 92, 151-161.	1.0	8
42	Activation of the MEK-ERK Pathway Is Necessary but Not Sufficient for Breaking Central B Cell Tolerance. <i>Frontiers in Immunology</i> , 2018, 9, 707.	2.2	14
43	MEK inhibition drives anti-viral defence in RV but not RSV challenged human airway epithelial cells through AKT/p70S6K/4E-BP1 signalling. <i>Cell Communication and Signaling</i> , 2019, 17, 78.	2.7	15
44	Silica Exposure Differentially Modulates Autoimmunity in Lupus Strains and Autoantibody Transgenic Mice. <i>Frontiers in Immunology</i> , 2019, 10, 2336.	2.2	12
45	Interleukin 21 Receptor/Ligand Interaction Is Linked to Disease Progression in Pancreatic Cancer. <i>Cells</i> , 2019, 8, 1104.	1.8	11
46	Function and dysfunction of plasma cells in intestine. <i>Cell and Bioscience</i> , 2019, 9, 26.	2.1	14
47	Protein kinase 2 (CK2): a potential regulator of immune cell development and function in cancer. <i>Immunological Medicine</i> , 2021, 44, 159-174.	1.4	19
48	Syk degradation restrains plasma cell formation and promotes zonal transitions in germinal centers. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	20
49	Unraveling the mysteries of plasma cells. <i>Advances in Immunology</i> , 2020, 146, 57-107.	1.1	18
50	IFITM3 affects the level of antibody response after influenza vaccination. <i>Emerging Microbes and Infections</i> , 2020, 9, 976-987.	3.0	18
52	ERK phosphorylation is RAF independent in naïve and activated B cells but RAF dependent in plasma cell differentiation. <i>Science Signaling</i> , 2021, 14, .	1.6	7
53	Integration of T helper and BCR signals governs enhanced plasma cell differentiation of memory B cells by regulation of CD45 phosphatase activity. <i>Cell Reports</i> , 2021, 36, 109525.	2.9	7
54	Circulating CD138 enhances disease progression by augmenting autoreactive antibody production in a mouse model of systemic lupus erythematosus. <i>Journal of Biological Chemistry</i> , 2021, 297, 101053.	1.6	8
55	A Network Model to Describe the Terminal Differentiation of B Cells. <i>PLoS Computational Biology</i> , 2016, 12, e1004696.	1.5	58
56	MiR-148a impairs Ras/ERK signaling in B lymphocytes by targeting SOS proteins. <i>Oncotarget</i> , 2017, 8, 56417-56427.	0.8	6

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57	CCAAT/enhancer binding protein β Induces Post-Switched B Cells to Produce Blimp1 and Differentiate into Plasma Cells. <i>Immune Network</i> , 2020, 20, e42.	1.6	1
58	Supplying the trip to antibody production—nutrients, signaling, and the programming of cellular metabolism in the mature B lineage. <i>Cellular and Molecular Immunology</i> , 2022, 19, 352-369.	4.8	25
59	Fine-tuning of MEK signaling is pivotal for limiting B and T cell activation. <i>Cell Reports</i> , 2022, 38, 110223.	2.9	3
61	P2RY8 variants in lupus patients uncover a role for the receptor in immunological tolerance. <i>Journal of Experimental Medicine</i> , 2022, 219, .	4.2	26
62	Construction and Bioinformatics Analysis of circRNA-miRNA-mRNA Network in Acute Myocardial Infarction. <i>Frontiers in Genetics</i> , 2022, 13, 854993.	1.1	4
69	Ziyuglycoside I attenuates collagen-induced arthritis through inhibiting plasma cell expansion. <i>Journal of Ethnopharmacology</i> , 2022, 294, 115348.	2.0	6
70	Implication des kinases MEK1 et MEK2 dans la maturation du système immunitaire chez la souris. <i>Medecine/Sciences</i> , 2022, 38, 529-532.	0.0	0
71	Fc γ RIIB regulates autoantibody responses by limiting marginal zone B cell activation. <i>Journal of Clinical Investigation</i> , 2022, 132, .	3.9	6
72	Onco-immunomodulatory properties of pharmacological interference with RAS-RAF-MEK-ERK pathway hyperactivation. <i>Frontiers in Oncology</i> , 0, 12, .	1.3	13
74	A p38 β -BLIMP1 signalling pathway is essential for plasma cell differentiation. <i>Nature Communications</i> , 2022, 13, .	5.8	3
75	CK2 β -regulated signaling controls B cell differentiation and function. <i>Frontiers in Immunology</i> , 0, 13, .	2.2	1
76	Regulation of the immune system by the insulin receptor in health and disease. <i>Frontiers in Endocrinology</i> , 0, 14, .	1.5	7
77	Potential Pathogenic Impact of Cow's Milk Consumption and Bovine Milk-Derived Exosomal MicroRNAs in Diffuse Large B-Cell Lymphoma. <i>International Journal of Molecular Sciences</i> , 2023, 24, 6102.	1.8	4
78	Celastrol suppresses humoral immune responses and autoimmunity by targeting the COMMD3/8 complex. <i>Science Immunology</i> , 2023, 8, .	5.6	4