

Terence L Kirley

List of Publications by Year in descending order

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2,098
citations

201674

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243625

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Cloning, sequencing, and expression of a human brain ecto-apyrase related to both the ecto-ATPases and CD39 ecto-apyrases. <i>BBA - Proteins and Proteomics</i> , 1998, 1386, 65-78.	2.1	166
2	Complementary DNA Cloning and Sequencing of the Chicken Muscle Ecto-ATPase. <i>Journal of Biological Chemistry</i> , 1997, 272, 1076-1081.	3.4	112
3	Site-Directed Mutagenesis of a Human Brain Ecto-Apyrase: Evidence That the E-Type ATPases Are Related to the Actin/Heat Shock 70/Sugar Kinase Superfamily. <i>Biochemistry</i> , 1999, 38, 321-328.	2.5	112
4	Reduction and fluorescent labeling of cyst(e)ine-containing proteins for subsequent structural analyses. <i>Analytical Biochemistry</i> , 1989, 180, 231-236.	2.4	103
5	Immunolocalization of ecto-nucleoside triphosphate diphosphohydrolase 3 in rat brain: Implications for modulation of multiple homeostatic systems including feeding and sleep/wake behaviors. <i>Neuroscience</i> , 2006, 137, 1331-1346.	2.3	86
6	The amino acid sequence of the fluorescein isothiocyanate reactive site of lamb and rat kidney Na ⁺ - and K ⁺ -dependent ATPase. <i>Biochemical and Biophysical Research Communications</i> , 1984, 125, 767-773.	2.1	85
7	Control of Cell Membrane Ecto-ATPase by Oligomerization State: Intermolecular Cross-Linking Modulates ATPase Activity. <i>Biochemistry</i> , 1996, 35, 8289-8298.	2.5	77
8	Cloning, expression, and characterization of a soluble calcium-activated nucleotidase, a human enzyme belonging to a new family of extracellular nucleotidases. <i>Archives of Biochemistry and Biophysics</i> , 2002, 406, 105-115.	3.0	69
9	Mutagenesis of Two Conserved Tryptophan Residues of the E-Type ATPases: Inactivation and Conversion of an Ecto-Apyrase to an Ecto-NTPase. <i>Biochemistry</i> , 1999, 38, 5849-5857.	2.5	65
10	Glycosylation Is Essential for Functional Expression of a Human Brain Ecto-apyrase. <i>Biochemistry</i> , 1999, 38, 1509-1516.	2.5	59
11	Purification and characterization of the ecto-Mg-ATPase of chicken gizzard smooth muscle. <i>Journal of Proteomics</i> , 1994, 29, 61-75.	2.4	51
12	Site-Directed Mutagenesis of Human Nucleoside Triphosphate Diphosphohydrolase 3: The Importance of Residues in the Apyrase Conserved Regions. <i>Biochemistry</i> , 2001, 40, 3943-3950.	2.5	49
13	RESEARCH REPORT. <i>Archives of Biochemistry and Biophysics</i> , 1997, 337, 351-359.	3.0	48
14	Expression and Characterization of Soluble and Membrane-bound Human Nucleoside Triphosphate Diphosphohydrolase 6 (CD39L2). <i>Journal of Biological Chemistry</i> , 2000, 275, 34041-34045.	3.4	48
15	Bacterial Expression, Characterization, and Disulfide Bond Determination of Soluble Human NTPDase6 (CD39L2) Nucleotidase: Implications for Structure and Function. <i>Biochemistry</i> , 2003, 42, 11726-11735.	2.5	48
16	Synthesis and Anticoagulant Activity of Polyureas Containing Sulfated Carbohydrates. <i>Biomacromolecules</i> , 2014, 15, 4455-4466.	5.4	45
17	Properties of and Proteins Associated with the Extracellular ATPase of Chicken Gizzard Smooth Muscle. <i>Journal of Biological Chemistry</i> , 1995, 270, 11845-11850.	3.4	40
18	The structure of the nucleoside triphosphate diphosphohydrolases (NTPDases) as revealed by mutagenic and computational modeling analyses. <i>Purinergic Signalling</i> , 2006, 2, 379-389.	2.2	40

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19	Characterization of a monoclonal antibody as the first specific inhibitor of human NTP diphosphohydrolase. FEBS Journal, 2009, 276, 479-496.	4.7	40
20	Characterization of Disulfide Bonds in Human Nucleoside Triphosphate Diphosphohydrolase 3 (NTPDase3): Implications for NTPDase Structural Modeling. Biochemistry, 2005, 44, 8998-9012.	2.5	39
21	Bacterial Expression and Characterization of a Novel, Soluble, Calcium-Binding, and Calcium-Activated Human Nucleotidase. Biochemistry, 2003, 42, 2412-2421.	2.5	32
22	Bacterial expression, folding, purification and characterization of soluble NTPDase5 (CD39L4) ecto-nucleotidase. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1747, 251-259.	2.3	31
23	Solubilization and affinity labeling of a dihydropyridine binding site from skeletal muscle: Effects of temperature and diltiazem on [3H]dihydropyridine binding to transverse tubules. Biochemical and Biophysical Research Communications, 1984, 123, 41-49.	2.1	29
24	Structural studies on H ⁺ , K ⁺ -ATPase: Determination of the NH ₂ -terminal amino acid sequence and immunological cross-reactivity with Na ⁺ ,K ⁺ -ATPase. Biochemical and Biophysical Research Communications, 1986, 138, 185-192.	2.1	29
25	Immunolocalization of the Ecto-ATPase and Ecto-apyrase in Chicken Gizzard and Stomach. Journal of Biological Chemistry, 1997, 272, 23645-23652.	3.4	29
26	Site-Directed Mutagenesis of Human Nucleoside Triphosphate Diphosphohydrolase 3: The Importance of Conserved Glycine Residues and the Identification of Additional Conserved Protein Motifs in eNTPDases. Archives of Biochemistry and Biophysics, 2001, 395, 94-102.	3.0	29
27	Asparagine 81, an invariant glycosylation site near apyrase conserved region 1, is essential for full enzymatic activity of ecto-nucleoside triphosphate diphosphohydrolase 3. Archives of Biochemistry and Biophysics, 2003, 413, 107-115.	3.0	28
28	Identification of Cysteine Residues Responsible for Oxidative Cross-linking and Chemical Inhibition of Human Nucleoside-triphosphate Diphosphohydrolase 3. Journal of Biological Chemistry, 2002, 277, 6162-6169.	3.4	26
29	Characterization of a recombinant humanized anti-cocaine monoclonal antibody and its Fab fragment. Human Vaccines and Immunotherapeutics, 2015, 11, 458-467.	3.3	25
30	Unfolding of IgG domains detected by non-reducing SDS-PAGE. Biochemical and Biophysical Research Communications, 2018, 503, 944-949.	2.1	23
31	Homology of ATP binding sites from Ca ²⁺ and (Na,K)-ATPases: Comparison of the amino acid sequences of fluorescein isothiocyanate labeled peptides. Biochemical and Biophysical Research Communications, 1985, 130, 732-738.	2.1	21
32	Expression and Characterization of Human Ecto-ATPase and Chimeras with CD39 Ecto-Apyrase. IUBMB Life, 2000, 50, 43-50.	3.4	21
33	Selective disulfide reduction for labeling and enhancement of Fab antibody fragments. Biochemical and Biophysical Research Communications, 2016, 480, 752-757.	2.1	21
34	Characterization of a recombinant humanized anti-cocaine monoclonal antibody produced from multiple clones for the selection of a master cell bank candidate. Biochemical and Biophysical Research Communications, 2017, 487, 690-694.	2.1	21
35	Structural diversity of triadin in skeletal muscle and evidence of its existence in heart. FEBS Letters, 1994, 348, 17-20.	2.8	20
36	The calcium activated nucleotidases: A diverse family of soluble and membrane associated nucleotide hydrolyzing enzymes. Purinergic Signalling, 2006, 2, 327-333.	2.2	20

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37	Site-Directed Mutagenesis of Human Soluble Calcium-Activated Nucleotidase 1 (hSCAN-1): Identification of Residues Essential for Enzyme Activity and the Ca ²⁺ -Induced Conformational Change. <i>Biochemistry</i> , 2004, 43, 9185-9194.	2.5	18
38	Structural characterization of expressed monoclonal antibodies by single sample mass spectral analysis after IdeS proteolysis. <i>Biochemical and Biophysical Research Communications</i> , 2016, 477, 363-368.	2.1	17
39	Incorporation of phosphate into glycogen by glycogen synthase. <i>Archives of Biochemistry and Biophysics</i> , 2016, 597, 21-29.	3.0	17
40	Cell-type specificity of ectonucleotidase expression and upregulation by 2,3,7,8-tetrachlorodibenzo-p-dioxin. <i>Archives of Biochemistry and Biophysics</i> , 2002, 407, 49-62.	3.0	16
41	A novel differential scanning fluorimetry analysis of a humanized anti-cocaine mAb and its ligand binding characteristics. <i>Journal of Immunological Methods</i> , 2020, 476, 112676.	1.4	15
42	The importance of histidine residues in human ecto-nucleoside triphosphate diphosphohydrolase-3 as determined by site-directed mutagenesis. <i>BBA - Proteins and Proteomics</i> , 2001, 1547, 72-81.	2.1	14
43	Determination of structure-property relationships for 3-aminopropyltriethoxysilane films using x-ray reflectivity. <i>Journal of Materials Research</i> , 2013, 28, 1118-1128.	2.6	14
44	Heparin Mimic Material Derived from Cellulose Nanocrystals. <i>Biomacromolecules</i> , 2020, 21, 1103-1111.	5.4	12
45	Identification and Partial Characterization of EctoATPase Expressed by Immortalized B Lymphocytes. <i>Archives of Biochemistry and Biophysics</i> , 1997, 340, 10-18.	3.0	11
46	Expression and Characterization of Chicken Muscle Ecto-ATPase in Mammalian COS Cells. <i>IUBMB Life</i> , 1999, 48, 67-72.	3.4	11
47	Trafficking and Intracellular ATPase Activity of Human Ecto-nucleotidase NTPDase3 and the Effect of ER-Targeted NTPDase3 on Protein Folding. <i>Biochemistry</i> , 2008, 47, 9184-9197.	2.5	11
48	Conserved Polar Residues Stabilize Transmembrane Domains and Promote Oligomerization in Human Nucleoside Triphosphate Diphosphohydrolase 3. <i>Biochemistry</i> , 2009, 48, 9437-9447.	2.5	11
49	Epitope mapping in cell surface proteins by site-directed masking: defining the structural elements of NTPDase3 inhibition by a monoclonal antibody. <i>Protein Engineering, Design and Selection</i> , 2010, 23, 579-588.	2.1	11
50	[9] Preparation of antibodies to Na ⁺ ,K ⁺ -ATPase and its subunits. <i>Methods in Enzymology</i> , 1988, 156, 87-101.	1.0	10
51	Calcium-dependent Dimerization of Human Soluble Calcium Activated Nucleotidase. <i>Journal of Biological Chemistry</i> , 2006, 281, 28307-28317.	3.4	9
52	Characterization of an alternative splice variant of human nucleoside triphosphate diphosphohydrolase 3 (NTPDase3): A possible modulator of nucleotidase activity and purinergic signaling. <i>Archives of Biochemistry and Biophysics</i> , 2007, 457, 7-15.	3.0	9
53	Engineered human soluble calcium-activated nucleotidase inhibits coagulation in vitro and thrombosis in vivo. <i>Thrombosis Research</i> , 2008, 122, 541-548.	1.7	9
54	Domain unfolding of monoclonal antibody fragments revealed by non-reducing SDS-PAGE. <i>Biochemistry and Biophysics Reports</i> , 2018, 16, 138-144.	1.3	9

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55	Expression and Characterization of Chicken Muscle Ecto-ATPase in Mammalian COS Cells. IUBMB Life, 1999, 48, 67-72.	3.4	8
56	Proline residues link the active site to transmembrane domain movements in human nucleoside triphosphate diphosphohydrolase 3 (NTPDase3). Purinergic Signalling, 2010, 6, 327-337.	2.2	8
57	Transient changes in the localization and activity of ecto-nucleotidases in rat hippocampus following lipopolysaccharide treatment. International Journal of Developmental Neuroscience, 2007, 25, 275-282.	1.6	7
58	Structural analysis of free and liganded forms of the Fab fragment of a high-affinity anti-cocaine antibody, h2E2. Acta Crystallographica Section F, Structural Biology Communications, 2019, 75, 697-706.	0.8	7
59	Identification of a tyrosine residue responsible for N-acetylimidazole-induced increase of activity of ecto-nucleoside triphosphate diphosphohydrolase 3. Purinergic Signalling, 2005, 1, 271-280.	2.2	6
60	Ligand binding to a humanized anti-cocaine mAb detected by non-reducing SDS-PAGE. Biochemistry and Biophysics Reports, 2020, 23, 100795.	1.3	6
61	Ligand binding to a humanized anti-cocaine mAb measured by dye absorption spectroscopy. Biochemical and Biophysical Research Communications, 2021, 535, 93-98.	2.1	6
62	Cross-linking induces homodimer formation and inhibits enzymatic activity of chicken stomach ecto-ATPase. IUBMB Life, 1998, 44, 463-470.	3.4	5
63	Conserved lysine 79 is important for activity of ecto-nucleoside triphosphate diphosphohydrolase 3 (NTPDase3). Purinergic Signalling, 2004, 1, 51-58.	2.2	5
64	Cocaine binding to the Fab fragment of a humanized anti-cocaine mAb quantitated by dye absorption and fluorescence spectroscopy. Journal of Immunological Methods, 2021, 496, 113103.	1.4	5
65	Immunological detection of ECTO-atpase in chicken and rat tissues: Characterization, distribution, and a cautionary note. IUBMB Life, 1998, 45, 1057-1066.	3.4	4
66	Multi-domain unfolding of the Fab fragment of a humanized anti-cocaine mAb characterized by non-reducing SDS-PAGE. Biochemical and Biophysical Research Communications, 2020, 533, 580-585.	2.1	4
67	Ecto-ATPase of Tetrahymena. , 1997, , 135-142.		3
68	Oxidation of specific tryptophan residues inhibits high-affinity binding of cocaine and its metabolites to a humanized anticocaine mAb. Journal of Biological Chemistry, 2022, 298, 101689.	3.4	3
69	Characterization and Importance of the Dimer Interface of Human Calcium-Activated Nucleotidase. Biochemistry, 2008, 47, 771-778.	2.5	2
70	Evaluation of methods to reduce background using the Python-based ELISA_QC program. Journal of Immunological Methods, 2018, 456, 61-66.	1.4	2
71	Purification, Characterization, and Molecular Cloning of the Chicken Gizzard Smooth Muscle Ecto-ATPase. , 1997, , 111-126.		2
72	NTPDase3. The AFCS-nature Molecule Pages, 0, , .	0.2	1

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73	Tyrosine nitration of a humanized anti-cocaine mAb differentially affects ligand binding of cocaine and its metabolites. <i>Biochemistry and Biophysics Reports</i> , 2022, 30, 101278.	1.3	1
74	Critical evaluation of fluorescent dyes to evaluate the stability and ligand binding properties of an anti-cocaine mAb, h2E2. <i>Journal of Immunological Methods</i> , 2022, 508, 113323.	1.4	1
75	Instability of Cysteine Labeling With 4-(aminosulfonyl)-7-fluoro-2, 1, 3-benzoxadiazole (ABD-F). <i>Techniques in Protein Chemistry</i> , 1994, , 189-194.	0.3	0