

Title: Depletion of highly abundant proteins from human cerebrospinal fluid: a cautionary note

Journal: Molecular Neurodegeneration

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Supplementary Table 1: Proteins co-depleted in eluate/flow-through fractions obtained by Cibacron Blue/Protein A-based albumin/Ig depletion of human cerebrospinal fluid

Protein	Accession	Score	Mass (Da)	R	Reference
Ig lambda chain V-IV region Hil	sp P01717	64	11510	1291360.45	
Junction plakoglobin	sp P14923	225	81693	787005.00	[1]
Ig heavy chain V-III region GAL	sp P01781	295	12722	149151.86	
Ig heavy chain V-III region VH26	sp P01764	434	12574	119590.67	
Ig heavy chain V-III region BUT	sp P01767	512	12371	32686.84	
Complement component C7	sp P10643	1425	93457	9479.54	[2]
Vitamin K-dependent protein S	sp P07225	535	75074	8261.41	
Ig heavy chain V-II region NEWM	sp P01825	320	12782	4190.77	
Complement C5	sp P01031	387	188186	3245.50	[2]
Plasminogen	sp P00747	1173	90510	2374.78	[3]
Colony-stimulating factor 1 receptor	tr E9PEK4	601	74222	2364.82	[4]
Ectonucleotide pyrophosphatase/phosphodiesterase 2	tr E7EUF1	1573	101488	1824.75	[2]

Ig lambda-2 chain C regions	sp P0CG05	985	11287	1822.29	
Immunoglobulin lambda-like polypeptide 5	sp B9A064	797	23049	1675.48	
Ig kappa chain V-IV region Len	sp P01625	235	12632	1637.05	
Interleukin-6 receptor subunit beta	sp P40189	106	96216	1575.19	[5]
Alpha-2-macroglobulin	sp P01023	8149	164837	1414.75	[2], [6]
Coagulation factor V	sp P12259	152	251546	1193.43	[2]
Ig lambda chain V-III region LOI	sp P80748	164	11928	758.40	
Complement factor B	tr B4E1Z4	2063	140853	661.01	[6]
Complement C1r subcomponent	sp P00736	985	80067	502.98	[2]
Gelsolin	sp P06396	2367	85644	395.63	[6,7]
Ig gamma-4 chain C region	sp P01861	1067	35918	327.77	
Receptor-type tyrosine-protein phosphatase S	sp Q13332	323	217041	314.10	[8]
Ig gamma-3 chain C region	sp P01860	1071	41260	310.03	
Isoform 2 of amyloid-like protein 1	sp P51693-2	713	72202	308.88	[6,9]
Ig gamma-1 chain C region	sp P01857	1575	36083	292.89	
Fibulin-1	sp P23142	1138	77162	281.56	[2]
Complement C2	sp P06681	662	83214	265.89	[6,9]
Fibulin 2	tr F5H1F3	77	129370	238.93	[10]
Complement factor H	sp P08603	2007	139005	230.17	[11]
Ig lambda chain V-I region HA	sp P01700	156	11889	182.16	
Neurexin-2-alpha	sp Q9P2S2	62	184865	166.39	[3]
Complement C1s subcomponent	sp P09871	1046	76635	163.60	
Ig lambda chain V-III region SH	sp P01714	80	11386	160.25	
Complement component C6	sp P13671	480	104718	151.22	[12]
Ig kappa chain C region	sp P01834	1607	11602	109.59	
Ig gamma-2 chain C region	sp P01859	1131	35878	90.07	

Isoform 15 of Fibronectin	sp P02751-15	8651	272150	89.01	
Hornerin	sp Q86YZ3	40	282228	82.95	
NELL2	tr F8VVB6	1143	85863	77.62	[13]
Ig lambda chain V-IV region Bau	sp P01715	37	11298	75.91	
Complement C3	sp P01024	6034	187030	75.35	[3]
ROBO1 protein	tr B2RXI1	373	175727	58.46	[14]
Angiotensinogen	sp P01019	356	53121	50.00	[11]
Brevican (Fragment)	tr Q5T3I6	59	24898	42.99	[15]
Contactin-associated protein-like 4	tr F5H107	109	139833	40.66	
Ig kappa chain V-III region SIE	sp P01620	423	11768	39.88	
Collagen alpha-1(I) chain	sp P02452	296	138857	36.11	[3]
Ig kappa chain V-III region VG (Fragment)	sp P04433	68	12567	34.66	
Serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	tr B4E1F0	1302	55734	32.35	
Fibrinogen γ chain, isoform γ -A	sp P02679-2	820	49465	31.76	[11]
Ig heavy chain V-III region BRO	sp P01766	738	13218	30.96	
Uncharacterized protein	tr C9IZD4	180	141319	30.03	
Ig kappa chain V-I region AG	sp P01593	182	11985	29.66	
NEO1 protein	tr B7ZKM9	755	154207	28.96	
Contactin-1, isoform 2	sp Q12860-2	1846	111796	27.81	[3]
CSPG3 variant protein (Fragment)	tr Q4LE67	1200	144552	26.99	
Isoform 2 of Sulphydryl oxidase 1	sp O00391-2	36	66818	26.00	
Collagen, type III, alpha 1	tr E7ENY8	85	111928	24.15	
IgGFc-binding protein	sp Q9Y6R7	209	571639	24.11	
Ig heavy chain V-III region TUR	sp P01779	593	12423	23.27	
Beta-2-glycoprotein 1	sp P02749	54	38273	23.06	[16]
Collagen, type I, alpha 2	tr F5H299	116	129445	22.22	[9]

Alpha-1-antitrypsin	sp P01009	1340	46707	21.44	[11]
Prothrombin	sp P00734	122	69992	21.03	[9]
Amyloid beta (A4) precursor protein	tr B4DII8	918	84468	20.11	
Complement C4-B	sp P0C0L5	2358	192673	18.65	
Complement component C4B (Chido blood group)	tr A2BHY4	2445	192677	18.52	
Neurexin-3-alpha	sp Q9Y4C0	465	180484	16.19	
Isoform 2 of Transmembrane protein 132A	sp Q24JP5-2	524	110128	16.19	
Neural cell adhesion molecule L1-like protein	sp O00533	1545	134987	16.11	
Netrin receptor DCC	sp P43146	445	158357	15.60	
Neurofascin	tr F8W791	370	148313	15.39	
Contactin-2	sp Q02246	531	113322	15.27	
Vasorin	sp Q6EMK4	176	71668	14.69	
Histidine-rich glycoprotein	sp P04196	227	59541	13.54	
Seizure related 6 homolog (Mouse)-like	tr B0QYH4	304	79590	13.50	
Isoform 2 of Nidogen-1	sp P14543-2	154	121941	12.80	
Collagen alpha-1(VI) chain	sp P12109	128	108462	12.69	
Ceruloplasmin	sp P00450	2332	122128	12.68	
L1 cell adhesion molecule, isoform CRA_a	tr G3XAF4	135	138821	12.33	
Inter-alpha (Globulin) inhibitor H2	tr Q5T985	624	105150	11.75	
Ig alpha-1 chain C region	sp P01876	630	37631	10.88	
Mannosidase, alpha, class 2A, member 2	tr H0YKU9	79	120701	10.86	
Neural cell adhesion molecule 2	sp O15394	782	92988	10.59	
Apolipoprotein A-I	sp P02647	152	30759	10.09	
Phospholipid transfer protein	tr B3KUE5	59	56598	9.10	
Uncharacterized protein	tr F5H7E1	746	72076	8.95	
Isoform 2 of Ig mu chain C region	sp P01871-2	127	51758	8.93	

Cystatin-C	sp P01034	164	15789	8.53
Cartilage oligomeric matrix protein	tr G3XAP6	21	79646	8.45
V-abl Abelson murine leukemia viral oncogene homolog 2	tr D1MPS6	22	124482	8.14
Serpin peptidase inhibitor, clade A (Alpha-1 antiproteinase, antitrypsin), member 3, isoform CRA_b	tr G3V5I3	377	50566	7.98
Prostaglandin D2 synthase 21kDa (brain) (Fragment)	tr H0Y5A1	679	22932	7.49
Cell surface glycoprotein MUC18	sp P43121	118	71563	7.41
Isoform 2 of Neural cell adhesion molecule 1	sp P13591-1	1240	93303	7.09
Pigment epithelium-derived factor	sp P36955	276	46283	6.84
Seizure-related 6 homolog (mouse) (Fragment)	tr F5GZF9	438	98380	6.64
Protein Shroom3	sp Q8TF72	64	216724	5.03
Protease, serine, 1 (trypsin 1)	tr E7EQ64	66	28105	4.82
Kininogen 1	tr B4DPP8	35	46467	4.75
Calcium channel, voltage-dependent, alpha 2/delta subunit 1	tr F8WC36	1117	125311	4.47
Neuronal cell adhesion molecule	tr E9PDA4	1027	131662	3.79
Apolipoprotein E	sp P02649	525	36132	3.49
Laminin subunit gamma-1	sp P11047	180	177489	2.95
Vitronectin	sp P04004	34	54271	2.63
Hemopexin	sp P02790	102	51643	2.23
CD163 molecule	tr F5GZZ9	206	120244	2.21
Lumican	sp P51884	62	38405	2.02
Serotransferrin	sp P02787	4179	77014	1.22
Plexin domain-containing 2	tr F5H554	63	58147	1.06
Delta and Notch-like epidermal growth factor-related receptor	sp Q8NFT8	95	78422	0.59
Serum albumin	sp P02768	8436	69321	0.57

SPARC-like 1 (hevin)	tr B4E2Z0	233	61722	0.57
Seizure-related 6 homolog (mouse)-like 2	tr F5H293	425	94410	0.50
Afamin	sp P43652	223	69024	0.26
Dermcidin isoform 2	tr A5JHP3	257	12406	0.20
Isoform 2 of Peptidase inhibitor 16	sp Q6UXB8-2	75	29654	0.07

Accession, accession number in SwissProt/Tremble data base; Score, Mascot Score; R, mass spectrometry signal intensity ratio $I_{\text{column-bound}}/I_{\text{depleted}}$; Reference, reference suggesting eligibility as a biomarker

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