

**A**

**Search Result Info**

Search Result	Location	Search Engine	Database
POA Q Exactive SP Hsa Trypsin citrullination_Mascot_2013-07-23 16: 51:35	/PG548-POA/130719/QD03763.mgf	Mascot	NCBIInr-geneid (2013-02-04)

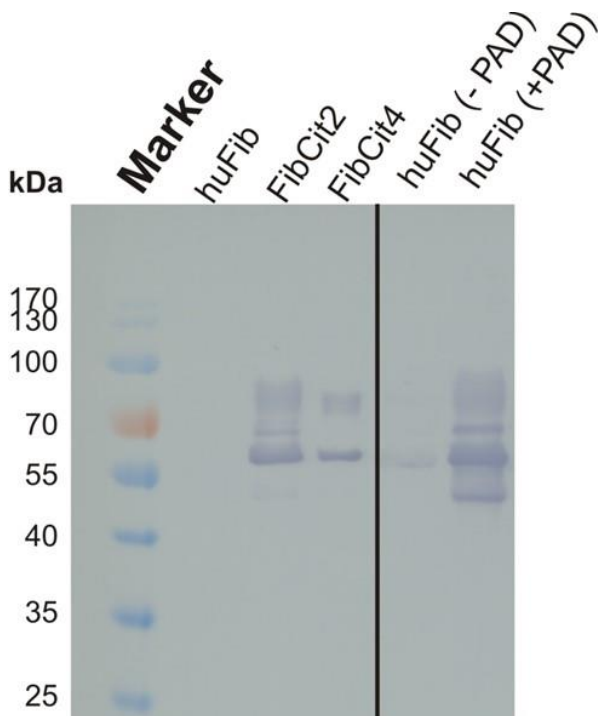
**Protein 1: [FGB,2244] fibrinogen beta chain isoform 1 preproprotein [Homo sapiens]**

<b>Accession:</b> gij70906435	<b>Score:</b> 615.5
<b>Database:</b> NCBIInr-geneid	<b>MW [kDa]:</b> 55.9
	<b>pI:</b> 9.3
<b>Modification(s):</b> Deamidated	<b>Sequence Coverage [%]:</b> 13.6
	<b>No. of unique Peptides:</b> 10

10	20	30	40	50	60	70	80
MKRMVSWSFH	KLKTMKHLILL	LLLCVFLVKS	QGVNDNEEGF	FSARGHRPLD	KKREEAPSLR	PAPPPISGGG	YRARPAKAAA
90	100	110	120	130	140	150	160
TQKKVERKAP	DAGGCLHADP	DLGVLCPPTGC	QLQEALLQQE	RPIRNSVDEL	NNNVEAVSQT	SSSSFQYMYL	LKDLWQKRQK
170	180	190	200	210	220	230	240
QVKDNENVVN	EYSSELEKHQ	LYIDETVNSN	IPTNLRVLR	ILENLRSKI	Q	KLESDVSAQM	EYCRTPTVTS
250	260	270	280	290	300	310	320
CEEIIRKGGE	TSEMYLIQPD	SSVKPYRVYC	DMNTFENGWWT	VIQNRQDGSV	DFGRKWDPYK	QGFGNVATNT	DGKNYCGLPG
330	340	350	360	370	380	390	400
EYWLGNLKL	QLTRMGPTLE	LIEMEDWKG	KVKAHYGGFT	VQNEANKYQI	SVNKYRGTAG	NALMDGASQL	MGENRMTTTH
410	420	430	440	450	460	470	480
NGMFFSTYDR	DNDGWLTSDF	RKQCSKEDGG	GWYVNRCHAA	NPNGRYWGG	QYTWDMARKH	TDDGVVVMNW	KGSWYSMRKM
490	500						
SMKIRPFPPQ	Q						

Cmpd.	No. of Cmpds.	m/z meas.	Δ m/z [ppm]	z	Rt [min]	Score	P	Range	Sequence	Modification
596	3	1058.7733	-0.65	4	14.8	81.8	2	161-196	K.QVKDNENVVNEYSSLEKHQLYIDETVNSNIPTNLR.V	
691	1	821.0677	-0.53	5	15.3	20.0	3	161-196	K.QVKDNENVVNEYSSLEKHQLYIDETVNSNIPTNLR.VLR.S	Deamidated: 36
719	3	1262.9548	-0.80	3	15.4	123.6	1	164-196	K.DNENVVNEYSSLEKHQLYIDETVNSNIPTNLR.V	
782	2	1062.2760	-1.81	4	15.8	36.6	2	164-196	K.DNENVVNEYSSLEKHQLYIDETVNSNIPTNLR.VLR.S	Deamidated: 33
479	2	709.6992	0.01	3	14.1	89.7	0	179-196	K.HQLYIDETVNSNIPTNLR.V	
625	1	832.7768	-2.10	3	14.9	49.2	1	179-196	K.HQLYIDETVNSNIPTNLR.VLR.S	Deamidated: 18
623	2	405.2464	-1.43	3	14.9	31.5	1	197-206	R.VLRSILENLR.S	Deamidated: 3
648	1	715.4224	0.10	2	15.1	39.2	2	197-206	R.VLRSILENLR.SKI	Deamidated: 3, 10
422	1	422.7479	-0.30	2	13.8	42.5	0	200-206	R.SILENLR.S	
674	2	740.3755	1.47	3	15.2	104.4	2	335-353	R.MGPTLEIEMEDWKGDKVK.A	

**B**



- neg. control: huFib
- pos. control: FibCit2 & FibCit4
- Anti-citrullinated-fibrinogen antibody: mouse-anti-citrullinated fibrinogen (α-FibC)

C

