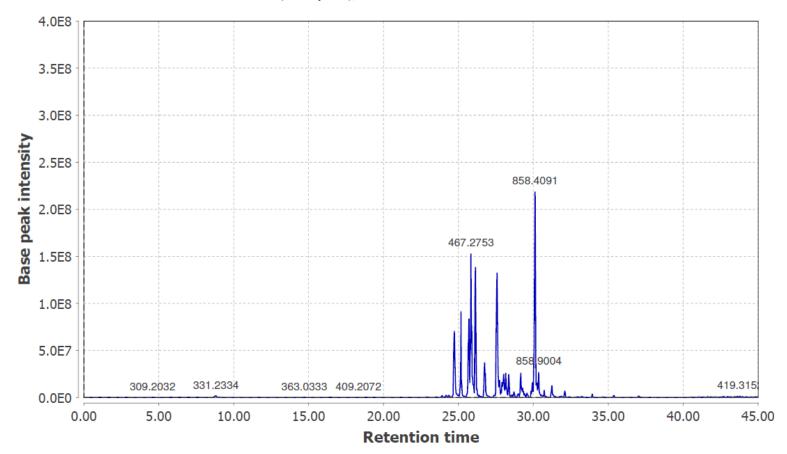
Figure Supplementary 15-1: BLG digest with trypsin and matched protein sequence





--- 8375_BLG_T1_610nl.raw

Sequence Coverage: 76%

Matched peptides shown in Bold Red

1 LIVTQTMKGL DIQKVAGTWY SLAMAASDIS LLDAQSAPLR VYVEELKPTP

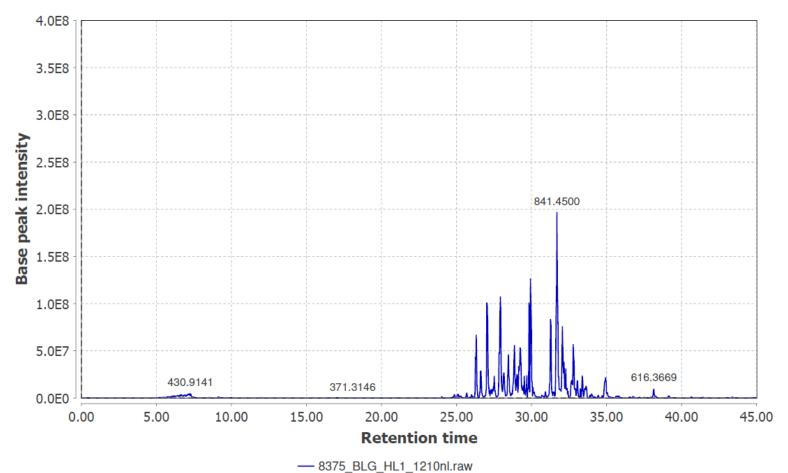
51 EGDLEILLQK WENGECAQKK IIAEKTKIPA VFKIDALNEN KVLVLDTDYK

101 KYLLFCMENS AEPEQSLACQ CLVRTPEVDD EALEKFDKAL KALPMHIRLS

151 FNPTQLEEQC HI

Figure Supplementary 15-2: BLG digest with NHSSP-protease and matched protein sequence

XIC (base peak), m/z: 200.0000 - 2000.0000



Sequence Coverage: 100%

Matched peptides shown in Bold Red

1 LIVTQTMKGL DIQKVAGTWY SLAMAASDIS LLDAQSAPLR VYVEELKPTP

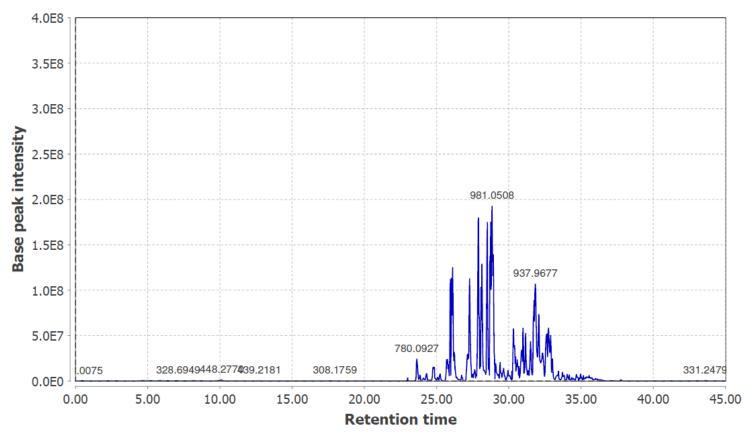
51 EGDLEILLOK WENGECAOKK IIAEKTKIPA VFKIDALNEN KVLVLDTDYK

101 KYLLFCMENS AEPEQSLACQ CLVRTPEVDD EALEKFDKAL KALPMHIRLS

151 FNPTQLEEQC HI

Figure Supplementary 15-3: mAB digest with trypsin and matched protein sequences

XIC (base peak), m/z: 200.0000 - 2000.0000



- 8375 mAB T1 530nl.raw

mAB heavy chain: Sequence Coverage: 64%

Matched peptides shown in Bold Red

```
1 QVQLQQPGAE LVKPGASVKM SCKASGYTFT SYNMHWVKQT PGRGLEWIGA
51 IYPGNGDTSY NQKFKGKATL TADKSSTAY MQLSSLTSED SAVYYCARST
101 YYGGDWYFNV WGAGTTVTVS AASTKGPSVF PLAPSSKSTS GGTAALGCLV
151 KDYFPEPVTV SWNSGALTSG VHTFPAVLQS SGLYSLSSVV TVPSSSLGTQ
201 TYICNVNHKP SNTKVDKKVE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK
251 PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY
301 NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP
351 QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP
401 VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG
```

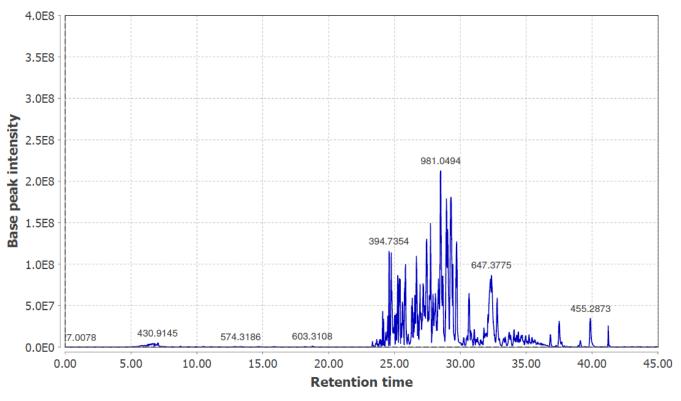
mAB light chain: Sequence Coverage: 71%

Matched peptides shown in Bold Red

```
1 QIVLSQSPAI LSASPGEKVT MTCRASSSVS YIHWFQQKPG SSPKPWIYAT
51 SNLASGVPVR FSGSGSGTSY SLTISRVEAE DAATYYCQQW TSNPPTFGGG
101 TKLEIKRTVA APSVFIFPPS DEQLKSGTAS VVCLLNNFYP REAKVQWKVD
151 NALQSGNSQE SVTEQDSKDS TYSLSSTLTL SKADYEKHKV YACEVTHQGL
201 SSPVTKSFNR GEC
```

Figure Supplementary 15-4: mAB digest with NHSSP-protease and matched protein sequences

XIC (base peak), m/z: 200.0000 - 2000.0000



— 8375 mAB HL1_1070nl.raw

mAB heavy chain: Sequence Coverage: 84%

Matched peptides shown in Bold Red

```
1 QVQLQQPGAE LVKPGASVKM SCKASGYTFT SYNMHWVKQT PGRGLEWIGA
51 IYPGNGDTSY NQKFKGKATL TADKSSSTAY MQLSSLTSED SAVYYCARST
101 YYGGDWYFNV WGAGTTVTVS AASTKGPSVF PLAPSSKSTS GGTAALGCLV
151 KDYFPEPVTV SWNSGALTSG VHTFPAVLQS SGLYSLSSVV TVPSSSLGTQ
201 TYICNVNHKP SNTKVDKKVE PKSCDKTHTC PPCPAPELLG GPSVFLFPPK
251 PKDTLMISRT PEVTCVVVDV SHEDPEVKFN WYVDGVEVHN AKTKPREEQY
301 NSTYRVVSVL TVLHQDWLNG KEYKCKVSNK ALPAPIEKTI SKAKGQPREP
351 QVYTLPPSRD ELTKNQVSLT CLVKGFYPSD IAVEWESNGQ PENNYKTTPP
401 VLDSDGSFFL YSKLTVDKSR WQQGNVFSCS VMHEALHNHY TQKSLSLSPG
451 K
```

mAB light chain:

Sequence Coverage: 96%

Matched peptides shown in Bold Red

```
1 QIVLSQSPAI LSASPGEKVT MTCRASSSVS YIHWFQQKPG SSPKPWIYAT
51 SNLASGVPVR FSGSGSGTSY SLTISRVEAE DAATYYCQQW TSNPPTFGGG
101 TKLEIKRTVA APSVFIFPPS DEQLKSGTAS VVCLLNNFYP REAKVQWKVD
151 NALQSGNSQE SVTEQDSKDS TYSLSSTLTL SKADYEKHKV YACEVTHQGL
201 SSPVTKSFNR GEC
```

Figure Supplementary 15-5: cleavage around bitter peptide region of ß-lactalbumin

START - END OBSERVED	MR(EXPT)	MR(CALC)	DELTA	Miss	SEQUENCE
70 - 82486.6409	1456.9010	1456.9017	0.0007	0	K.KIIAEKTKIPAVF.K (Ions score 38)
70 - 82486.6411	1456.9014 1	456.9017 -	0.0003	0	K.KIIAEKTKIPAVF.K (Ions score 24)
70 - 82 486.6411	1456.9016 1	456.9017 -	0.0001	0	K.KIIAEKTKIPAVF.K (Ions score 27)
70 - 82486.6416	1456.9030 1	456.9017	0.0013	0	K.KIIAEKTKIPAVF.K (Ions score 28)
71 - 82665.4109	1328.8073 1	328.8067	0.0006	0	K.IIAEKTKIPAVF.K (Ions score 38)
73 - 82552.3264	1102.6383 1	102.6386 -	0.0003	0	I.AEKTKIPAVF.K (Ions score 33)
74 - 82516.8077	1031.6009 1	031.6015 -	0.0006	0	A.EKTKIPAVF.K (Ions score 41)
74 - 82516.8078	1031.6010 1	031.6015 -	0.0004	0	A.EKTKIPAVF.K (Ions score 25)
74 - 82516.8080	1031.6014 1	031.6015 -	0.0001	0	A.EKTKIPAVF.K (Ions score 35)
74 - 82516.8081	1031.6017 1	031.6015	0.0002	0	A.EKTKIPAVF.K (Ions score 44)
74 - 82516.8082	1031.6019 1	031.6015	0.0004	0	A.EKTKIPAVF.K (Ions score 43)
74 - 82516.8083	1031.6020 1	031.6015	0.0005	0	A.EKTKIPAVF.K (Ions score 50)
74 - 82516.8083	1031.6020 1	031.6015	0.0005	0	A.EKTKIPAVF.K (Ions score 36)
74 - 82516.8083	1031.6020 1	031.6015	0.0005	0	A.EKTKIPAVF.K (Ions score 22)
74 - 82516.8084	1031.6023 1	031.6015	0.0008	0	A.EKTKIPAVF.K (Ions score 50)
74 - 82516.8085	1031.6024 1	031.6015	0.0009	0	A.EKTKIPAVF.K (Ions score 45)
74 - 82516.8085	1031.6025 1	031.6015	0.0010	0	A.EKTKIPAVF.K (Ions score 43)
74 - 83387.5727	1159.6963 1	159.6964 -	0.0001	0	A.EKTKIPAVFK.I (Ions score 23)
75 - 82452.2862	902.5578	902.5589 -	0.0011	0	E.KTKIPAVF.K (Ions score 29)
75 - 82452.2866	902.5586	902.5589 -	0.0003	0	E.KTKIPAVF.K (Ions score 34)
75 - 82452.2866	902.5587	902.5589 -	0.0002	0	E.KTKIPAVF.K (Ions score 31)
76 - 83301.8600	902.5582	902.5589 -	0.0007	0	K.TKIPAVFK.I (Ions score 28)
76 - 83301.8600	902.5582	902.5589 -	0.0007	0	K.TKIPAVFK.I (lons score 29)
76 - 83301.8602	902.5589	902.5589 -	0.0000	0	K.TKIPAVFK.I (lons score 38)
77 - 82337.7151	673.4157	673.4163 -	0.0005	0	T.KIPAVF.K (Ions score 32)
77 - 82337.7153	673.4161	673.4163 -	0.0001	0	T.KIPAVF.K (Ions score 23)
81 - 85311.1838	620.3531	620.3533 -	0.0002	0	A.VFKID.A (lons score 33)
81 -85 311.1839	620.3533	620.3533 -	0.0000	0	A.VFKID.A (lons score 33)
83 - 87559.3448	558.3376	558.3377 -	0.0001	0	F.KIDAL (Ions score 29)