

Supplementary Materials

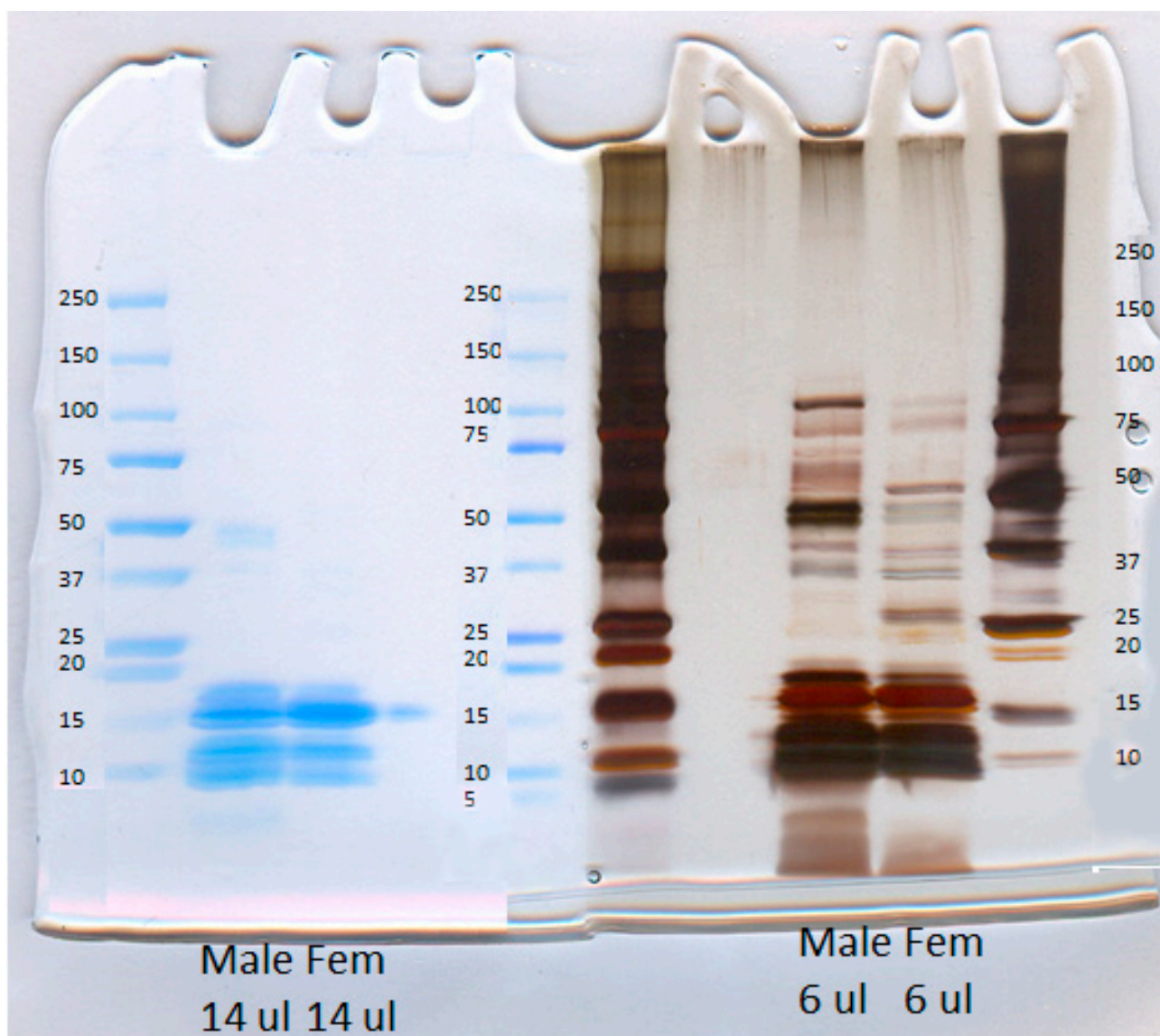


Figure S1. SDS one-dimension (1D) gel.

Spot 1 No ABP peptides found

Spot 13

A2 gicpaikedvhlflfgtpeeyvnyvek **YKDDPETLENTEK**LK icvdrtltkenkehaaafiekiessplc
YKDDPETLENTEK
YKDDPETLENTEK LK

BG2 cipffgvylgilsgr **IGLHTE**LAPFDPTVEEKEAFEKI **IQDCYEEGLK**AK tedmk **LMTTILFSSECR**syttk **EVLKNILV**kfskkl
IGLHTE L A P F D P T V E E K E A F E K I I Q D C Y E E G L K A K L M T T I L F S S E C R E V L K N I L V k f s k k l t

No deamidated peptides found in either subunit

Spot A

A2 gicpaikedvhlflfgtpeeyvnyvek **YKDDPETLENTEK**LK icvdrtltkenkehaaafiekiESSPLC
YKDDPETLENTEK
YKDDPETLENTEK LK

BG2 cipffgvylgilsgr **IGLHTE**LAPFDPTVEEKEAFEKI **IQDCYEEGLK**AK TEDMKLMTTILFSSECRsyttk **EVLKNILV**kfskkl
IGLHTE L A P F D P T V E E K E A F E K I I Q D C Y E E G L K A K T E D M K L M T T I L F S S E C R E V L K N I L V k f s k k l t

BG24 cvpffagyagvisgsrlwlyhelsafngtpk **ETVAYEKI** **IQDCYKEQGVK**sqtlepqilasiltvpeclqyyseetftkikdalkkisqh
E T V A Y E K I I Q D C Y K E Q G V K s q t l e p q i l a s i l t v p e c l q y y s e e t f t k i k d a l k k i s q h

Spot B

A2 gicpaikedvhlflfgtpeeyvnyvek **YKDDPETLENTEK**LK icvdrtltk **ENKEHAAAFIEK**IESSPLC
YKDDPETLENTEK E N K E H A A A F I E K I E S S P L C
YKDDPETLENTEK L K

BG2 cipffgvylgilsgr **IGLHTE**LAPFDPTVEEKEAFEKI **IQDCYEEGLK**AK TEDMKLMTTILFSSECRsyttk **EVLKNILV**kfskkl
IGLHTE L A P F D P T V E E K E A F E K I I Q D C Y E E G L K A K T E D M K L M T T I L F S S E C R E V L K N I L V k f s k k l t

BG24 cvpffagyagvisgsrlwlyhelsafngtpk **ETVAYEKI** **IQDCYKEQGVK**sqtlepqilasiltvpeclqyyseetftkikdalkkisqh
E T V A Y E K I I Q D C Y K E Q G V K s q t l e p q i l a s i l t v p e c l q y y s e e t f t k i k d a l k k i s q h

Spot C

A2 **GICPAIK**edvhlflfgtpeeyvnyvek **YKDDPETLENTEK**LK icvdrtltk **ENKEHAAAFIEK**IESSPLC
YKDDPETLENTEK E N K E H A A A F I E K I E S S P L C
YKDDPETLENTEK L K

BG2 cipffgvylgilsgr **IGLHTE**LAPFDPTVEEKEAFEKI **IQDCYEEGLK**AK TEDMKLMTTILFSSECRsyttk **EVLKNILV**kfskkl
IGLHTE L A P F D P T V E E K E A F E K I I Q D C Y E E G L K A K T E D M K L M T T I L F S S E C R E V L K N I L V k f s k k l t

Both versions of YKDDPETLENTEK(LK) (i.e. deamidated or not) were found

Spot D

A2 **GICPAIK**edvhlflfgtpeeyvnyvek **YKDDPETLENTEK**LK icvdr **TLTKEN**KEHAAAFIEKIESSPLC
D D P E T L E N T E K E N K E H A A A F I E K I E S S P L C
YKDDPETLENTEK E N K E H A A A F I E K I E S S P L C
YKDDPETLENTEK L K (only this one was deamidated)

BG2 cipffgvylgilsgr **IGLHTE**LAPFDPTVEEKEAFEKI **IQDCYEEGLK**AK TEDMKLMTTILFSSECRsyttk **EVLKNILV**kfskkl
IGLHTE L A P F D P T V E E K E A F E K I I Q D C Y E E G L K A K T E D M K L M T T I L F S S E C R E V L K N I L V k f s k k l t

BG24 cvpffagyagvisgsrlwlyhelsafngtpk **ETVAYEKI** **IQDCYKEQGVK**sqtlepqilasiltvpeclqyyseetftkikdalkkisqh
E T V A Y E K I I Q D C Y K E Q G V K s q t l e p q i l a s i l t v p e c l q y y s e e t f t k i k d a l k k i s q h

Spot E

A2 gicpaikedvhlflfgtpeeyvnyvek **YKDDPETLENTEK**LK icvdrtltkenkehaaafiek **IESSPLC**
YKDDPETLENTEK

BG2 cipffgvylgilsgr **IGLHTE**LAPFDPTVEEKEAFEKI **IQDCYEEGLK**AK TEDMKLMTTILFSSECRsyttk **EVLKNILV**kfskkl
IGLHTE L A P F D P T V E E K E A F E K I I Q D C Y E E G L K A K T E D M K L M T T I L F S S E C R E V L K N I L V k f s k k l t

Figure S2. Cont.

Spot F

A2 gicpaikedvhlflfgtpeeyvnyvekYKDDPETLE^{*}TEK^{*}LKicvdrtltkENKEHAAAFIEKIESSPLC
 YKDDPETLE^{*}TEK ENKEHAAAFIEK (not found deamidated)
 YKDDPETLE^{*}TEK^{*}LK (both deamidated and not)

BG2 cipffgvylgilsgr^{*}IGLHTE^{*}LAPFDPTVEEKEAFEKI^{*}QDCYEEEG^{*}LKAKTEDMKLMTTILFSSECR^{*}syytkevlknilvkfskkl^{*}t
 I^{*}QDCYEEGLK
 I^{*}QDCYEEGLKAK (no deamidated peptides found)

A20 gicpaikedvrlflngtseeyveyvk^{*}QYKDDPVILE^{*}NTAKIK^{*}Q^{*}CVDSTL^{*}TEEDKIHATTFIEKIEAS^{*}PIC
 QYKDDPVILE^{*}NTAK
 IK^{*}Q^{*}CVDSTL^{*}TEEDKIHATTFIEK

No deamidated peptides of A20 were found

Figure S2. Peptides found to be deamidated (and those not deamidated). Excised spots showing ABPA2 and ABPBG2 subunits have Asn (green highlighting) and Gln (blue highlighting) residues, some of which have been deamidated (red highlighting). Asterisks identify deamidatable Asn and Gln residues. Capital letters with (yellow highlighting) identify peptides found.