

Source	AA nos.	-1123456789
CLP 36	138-153	ITN Q YNS P T G LYSSKN
Evi protein	196-212	GSN L L L Q S P G V L T A ARE
CD22	25-39	D W T V D H P Q T L F A W E G
Apolipoprotein B	767-782	P E T Y S G S V A N E A N T Y
Actin-like protein	254-269	V G G E R F E A P E A L F Q P H
Alcohol dehydrogenase	24-38	I E E I E V A P P K A H E V R
α-2 Macroglobulin receptor	734-748	R K I V Y E G P E L N H A F G
Fcγ receptor	231-245	E V G E Y R Q P S G G S V P V
Eα chain	52-68	A S F E A Q G A L A N I A V D K A
Apolipoprotein B	3247-3259	K I P G Y T V P V V N V E V S P F
CTLA-4	38-52	I Q V T Q P S V V L A S S H G
γ-Actin	349-364	I S K Q E Y D E S G P S I V H
Notch 1	2059-2072	A R E G S Y E T A K V L L D H
GAPDH	227-242	T G M A F R V P T P N V S V D
IL4R α chain	630-644	G Y K P F Q N P V P N Q S P S
Ly9	173-191	E D T H L N T Y D G S H T L R V S Q S
γ-Actin	163-177	V P I Y E G Y A L P H A I L R
DEC205	562-579	D P D S R G E Y S W A V A Q G V K Q
pp65 macrophage protein	537-552	S I A S F K D P K I S T S L P V
H-2M α	140-155	A P V E G A S P T S I S A V D G
F-actin capping protein	68-83	G D S Y R S P W S N K Y D P P L
VEGF 2 receptor	122-133	D Y R S P F I A S V S D
CD79A	82-94	T T G Q L F F P E V N K N
Tubulin α chain	102-115	I N Y Q P T V V P G G D L
Ig μ chain	376-391	E K Y V T S A P M P E P G A G
IA β chain	76-88	H N Y E G P E T H T S L R
Rab 5A	86-101	A P M Y Y R G A Q A I V Y D
Unknown peptide		E A Y N A T P A T L A V D
EstAA106114		E A Q A F S I L G L E A M R I
CD72	34-52	D G E L T Y E N V Q V S P V P G P P
IA β chain	50-64	R P D A E Y W N S Q P E I L E
EstW42132		I Y E A Y R Q G A N L E A L L
Apolipoprotein E	298-311	A T N P I I T P V A Q E N Q
IL6R β chain	390-405	T N D R Y V A S L A A R N K V G
LDL receptor	486-501	R N T Y W T D S V P G S V A
Notch 2	2418-2436	E S P D Q W S S S S P H S A S D W
MLV envelop GP70	195-209	G R K A S W D A P K V W G L R
Ig μ chain	409-421	S G E T Y T C V V G H E A
EstW48077		D L R A Q I A G Y L Y G V S L Q I T L
Transferrin receptor	683-699	K V E Y H F L S P Y V S P R E S P
VEGF 2 receptor	548-563	G P E I T V Q P A A O P T E Q E
Invariant chain	85-100	K P V S Q M R M A T P L L M R P
Mouse β2microglobulin	48-58	T Q F H P P H I E I Q
MUC-18	337-353	E L L V N Y V S D V R V S P A A P
CD98 heavy chain	207-223	G Q N A W F L P A Q A D I V A T K
BIP	62-76	I T P S Y V A F T P E G E R L
Fibrinogen like protein precursor	260-274	E W K D Y K A G F G N L E R E
Integrin β-1	778-794	G E N P I Y K S A V T T V V N P K
Aspartate aminotransferase	395-411	T K N L D Y V A T S I H E A V T K
MAMA protein	501-513	T S S Y S N P T I G Y E N R
VDAC	155-169	V D F D A G P A I H G S A V
EstW66697		N Q I W N V G L L D D D I P S
Notch-1	2492-2504	S P D Q W S S S S P H S N
EstW57523		N F G T V L T S L F I C K G Q
MLVenv	17-35	S S D L Y N W K N N N P S F S E D P G
ESTW64560		A V L F I Q R F K E V G A W V-
Glucose-6-phospahte isomerase	82-96	D N M F S G S K I N Y T E D R A V L H
Microtubule assoc protein PB1	352-372	P D L G V V F L N V P E N L K N P E P N
CD22	426-442	A K L D V H Y A P K A V T T V I Q
Cofactor D	1030-1045	F G G T L L Q V F E D N L L N D
Class II cytokine receptor 4	127-142	L H R F S A P Q I E N E P T
Casein kinase 1-α	137-153	I K P D N F L M G I G R H C N K L
Y-174 (human)	309-326	K L P S R P A D N Y D N F V L P E L
α-Catenin	722-737	M M E M T D F T R G K G P L K N

Description: The sequences of 64 independent peptides were assembled from Dongre, et al. (2001) *Eur J Immunol* **31**, 1485. These peptides had been isolated from IA^b and sequenced. In cases where multiple versions of a peptide were found, we used the shortest sequence common to all versions. The peptides were aligned to optimally fill the peptide amino acids side chain pockets found in the IA^b structure as described in the accompanying paper. Amino acids occupying the traditional p1, p4, p6 and p9 pockets are colored red and those in auxiliary binding positions are colored blue.