

# ABCpred Prediction Server

---

## INPUT INFORMATION

Sequence name	
Length of the sequence	486
Number of 16mers from the input sequence	471
Threshold setting (Default value is 0.5)	0.51

---

## TABULAR RESULT

### Predicted B-cell epitope

The predicted B cell epitopes are ranked according to their score obtained by trained recurrent neural network.

Higher score of the peptide means the higher probability to be as epitope.

All the peptides shown here are above the threshold value chosen.

Rank	Sequence	Start position	Score	
1	GVPIWGDVELAWRLDA	90	0.93	
1	AWRLDAAGCYGPPRSW	100	0.93	
2	HWAPSLRPEAGAVLNI	173	0.92	
3	AVADGITYVDDSKATN	319	0.90	
3	TGQAVAAVLTRFGATP	19	0.90	
4	AGCYGPPRSWLVTGT	106	0.89	
5	LGVRDAHLVDRAFSDD	249	0.88	
6	AGASFDQFTGYADRGE	460	0.86	
6	TGMPATVEVPVACVLD	407	0.86	
6	AVTSFRVGRHRAEVVA	304	0.86	
7	AVLIGRDRAAVAEALS	375	0.85	

7	HATMAEYTAAKARVLT	196	0.85	
7	RSWLVVVTGTNGKTTTT	113	0.85	
8	TAAVAAARRMAQPGDT	439	0.83	
9	AVLNIAEDHLDWHATM	184	0.82	
9	HAMLIAGGRRRAVLCGN	132	0.82	
10	ALSRHAPDVPVVQVVA	388	0.81	
11	VLVAGGRVTGQAVAAV	11	0.80	
12	DAVQQITGYALVVASP	59	0.79	
13	HAERGLPTVSSSDAVQ	47	0.78	
14	AGETVGAAVMTAAVAA	429	0.77	
14	PTVCDDDPVMLRPHAE	34	0.77	
14	VDDSKATNPHAARASV	327	0.77	
14	GVAVAGLDDSRAAALL	213	0.77	
15	AQPGDTVLLAPAGASF	449	0.76	
16	GSPAQVRVGFRLGEP	230	0.74	
16	GSAVLDVLDEPAELLA	149	0.74	
17	EPAARELGVRDAHLVD	243	0.73	
18	VEVPVACVLDVAKDDK	413	0.72	
18	TRFGATPTVCDDDPVM	28	0.72	
19	DVAKDDKAGETVGAAV	422	0.71	
19	PLGPGAPVLVAGGRVT	4	0.71	
19	KARVLTGGVAVAGLDD	206	0.71	
20	EVAAMASRLVGAVLIG	364	0.70	
20	VVWIAGLLKGASLHA	348	0.70	
20	ARSVGVPAGAIADAVT	291	0.70	
21	PGFSPATPLLAAAAAA	74	0.69	
21	RASVLAYPRVWVIAGG	339	0.69	
22	LPVASIPVPGPVGVLD	268	0.67	
22	GTNGKTTTTSMHAML	120	0.67	
23	GYALVVASPGFSPATP	66	0.66	
23	DDSRAAALLDGSPAQV	220	0.66	
24	QFTGYADRGEAFATAV	466	0.65	
24	VVQVVAGEDTGMPATV	398	0.65	
25	DALAAAALARSVGPA	283	0.64	

26	VGRHRAEVVAVADGIT	310	0.62	
27	DRAFSDDLTLTPVASI	258	0.60	
28	ELLAVELSSFQLHWAP	161	0.59	
29	GRRRAVLCGNIGSAVL	138	0.56	
30	GLLKGASLHAEVAAMA	354	0.54	

## OVERLAP DISPLAY

VLDPLGPGAPVLVAGGRVTGQAVAAVLTRFGATPTVCDDDPVMLRPHAERGLPTVSSSDAVQQITGYALVVASPGFSPATPLL  
 AAAAAAGVPIWGDVELAWRLDAAGCYGPPRSWLVTGTNGKTTTT'SMLHAMLIAAGRRRAVLCGNIGSAVLVDLDEPAELLAVE  
 LSSFQLHWAPSLRPEAGAVLNIAEDHLDWHATMAEYTAAKARVLTGGVAVAGLDDSRAAALLDGSPAQVRVGFRLGEPAAAREL  
 GVRDAHLVDRAFSDDLTLTPVASIPVPGPVGVLDALAAAALARSVGVPAIADAVTSFRVGRHRAEVVAVADGITVYVDDSKA  
 TNPHAARASVLAYPRVWVIAGGLLKGASLHAEVAAMASRLVGAVLIGRDRAAVAEALS RHAPDVPVQVAGEDTGM PATVEV  
 PVACVLDVAKDDKAGETVGAAVMTAAVAAAARRMAQPGDTVLLAPAGASFDQFTGYADRGEAFATAVRAVIR<sup>486</sup>

-----  
 -----  
 GVP I W G D V E L A W R L D A -----  
 -----  
 -----  
 -----  
 -----

-----  
 -----  
 A W R L D A A G C Y G P P R S W -----  
 -----  
 -----  
 -----  
 -----

-----  
 -----  
 H W A P S L R P E A G A V L N I -----  
 -----  
 -----  
 -----  
 -----

-----  
 -----  
 A V A D G I T Y V D D S K A T N -----  
 -----  
 -----  
 -----  
 -----

-----  
 -----  
 T G Q A V A A V L T R F G A T P -----  
 -----  
 -----  
 -----  
 -----

AGCYGPPRSWLVTGT

LGVRDAHLVDRAFSDD

AGASFDQFTGYADRGE

TGMPATVEVPVACVLD

AVTSFRVGRHRAEVVA

AVLIGRDRAAVAEALS

HATMAEYTAAKARVLT

RSWLVTGTNGKTTT

TAAVAAAARRMAQPGDT

AVLNIAEDHLDWHATM

HAMLIAGGRRRAVL CGN

ALSRHAPDVPVQVVA

VLVAGGRVTGQAVAAV

DAVQQITGYALVVASP

HAERGLPTVSSSDAVQ

AGETVGAAVMTAAVAA

PTVCDDDPVMLRPHAE

VDDSKATNPHAARASV

GVAVAGLDDSRAAALL

AQPGDTVLLAPAGASF

GSPAQVRVGFRLGEP

GSAVLVDLDEPAELLA

EPAARELGVRDAHLVD

VEVPVACVLDVAKDDK

TRFGATPTVCDDDPVM

DVAKDDKAGETVGAAV

PLGPGAPVLVAGGRVT

KARVLTGGVAVAGLDD

EVAAMASRLVGAVLIG

VVWIAGGLLKGASLHA

ARSVGVPAGAIADAVT

PGFSPATPLLAAAAAA

RASVLAYPRVWVIAGG

LPVASIPVPGPVGVLDD

GTNGKTTTTSMHLAML

GYALVVASPGFSPATP

DDSRAAAALLDGSPAQV

QFTGYADRGEAFATAV

VVQVVAGEDTGMPATV

DALAAAALARSVGVPVPA

VGRHRAEVVAVADGIT

DRAFSDDLTLLEPVASI

ELLAVELSSFQLHWAP

GGRRAVLCGNIGSAVL



-----  
-----  
-----  
-----  
-----  
-----  
-----  
-----  
-----  
-----  
-----

GLLKASLHAEVAAMA