

# ABCpred Prediction Server

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## INPUT INFORMATION

Sequence name	
Length of the sequence	461
Number of 16mers from the input sequence	446
Threshold setting (Default value is 0.5)	0.51

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## 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	ALTWQLPAEPGGGAAP	396	0.95	
1	PAWAIGPPVVDAAAQP	22	0.95	
2	VAIIDTGVQPGPRLPN	91	0.93	
2	PSWWQPYVLSVASLTS	275	0.93	
3	AKPVADPPVPAPKDTT	412	0.92	
4	WVGIAAPGENIASVSN	303	0.90	
4	DLSRPDDPRNWAGVTS	256	0.90	
4	VVAGWWTPPAWAIGPP	14	0.90	
4	HGTLVAGIVAGQPGND	126	0.90	
5	IVAGQPGNDGFSGVAP	133	0.89	
5	VDAGGDFVESTDGLTD	107	0.89	

6	SGSVSASCDSNPLTDL	242	0.88	
7	VIPGTDPGVPTPSQTM	59	0.87	
7	RTSGGDPQLAQATLDV	165	0.87	
7	GNDGFSGVAPAARLLS	139	0.87	
8	PVPAPKDTPRNVAF	419	0.86	
8	AEPGGGAAPAKPVADP	403	0.86	
8	DAAAQPPSGDPGPVAP	32	0.86	
8	PSKFSMPGPWVGIAAP	294	0.86	
9	APMEQRGACSVSGVIP	46	0.84	
9	NVSTITCLPADRMVDQ	199	0.84	
9	MSTKFSVRTSGGDPQL	158	0.84	
10	RGEGQLVAIIDTGVQP	85	0.83	
10	PAAWQFSRGEGQLVAI	78	0.83	
10	AGAIVHAADLGAKVIN	184	0.83	
11	DGLTDCDGHGTLVAGI	118	0.82	
12	RGARESSNIVGAGNLD	377	0.81	
13	RLTATAHRGARESSNI	370	0.80	
13	PGLNATEVVRRLTATA	360	0.80	
13	NGLPDAHQKLVALSGT	326	0.80	
14	AFACLAATVVVAGWWT	5	0.79	
15	GDGALANGLPDAHQKL	320	0.78	
15	AAIRYAAVDKDAVIVA	219	0.78	
16	GTSYAAGYVSGVAALV	340	0.77	
16	LLSIRAMSTKFSPTS	152	0.77	
17	DPRNWAGVTSVSIPSW	262	0.76	
18	SGVAALVRSRYPLNA	349	0.75	
18	ASVSNSGDGALANGLP	314	0.75	
19	TPSQTMLNLPAAWQFS	69	0.74	
20	DRMVDQAALGAAIRYA	209	0.71	
21	AVDKDAVIVAAAGNTG	225	0.70	
21	PQLAQATLDVAVLAGA	171	0.70	
22	NIVGAGNLDAVAALTW	384	0.66	
23	TAATVAIARRRREPT	446	0.64	
24	NLDAVAALTWQLPAEP	390	0.63	

24	YVLSVASLTSAGQPSK	281	0.63	
24	GVAPAARLLSIRAMST	145	0.63	
25	VQPGPRLPNVDAGGDF	98	0.60	
25	DLGAKVINVTITCLP	192	0.60	
26	AGAAALSVLVGLTAAT	434	0.56	

## OVERLAP DISPLAY

MIRAAAFACLAATVVVAGWWTTPAWAIGPPVVDAAAQPPSGDPGPVAPMEQRGACSVSGVIPGTDPGVPTPSQTMLNLPAAWQF  
 SRGEGQLVAIIDTGVQPGPRLPNVDAGGDFVESTDGLTDCDGHGTLVAGIVAGQPGNDGFSGVAPAARLLSIRAMSTKFSVRT  
 SGGDPQLAQATLDVAVLAGAIVHAADLGAKVINVTITCLPADRMVDQAALGAAIRYAAVDKDAVIVAAAGNTGASGSVSASC  
 DSNPLTDLSRPDDPRNWAGVTSVSI PSWWQPYVLSVASLTSAGQPSKFSMPGPWVGIAAPGENIASVNSNGDGALANGLPDAH  
 QKLVALSGT SYAAGYVSGVAALVRSRY PGLNATEVVRRLTATAHRGARESSNIVGAGNLDAVAALTWQLPAEPGGGAAPAKPV  
 ADPPVPAPKDTT PRNVAFAGAAALSVLVGLTAATVAIARRRREPT<sup>E461</sup>

ALTWQLPAEPGGGAAP

PAWAIGPPVVDAAAQP

VAIIDTGVQPGPRLPN

PSWWQPYVLSVASLTS

AKPVADPPVPAPKDTT

WVGIAAPGENIASVSN

DLSRPDDPRNWAGVTS

VVAGWWTPPAWAIGPP

HGTLVAGIVAGQPGND

IVAGQPGNDGFSGVAP

VDAGGDFVESTDGLTD

SGSVSASCDSNPLTDL

VIPGTDPGVPTPSQTM

RTSGGDPQLAQATLDV



PAAWQFSRGEGLVAI

AGAIVHAADLGAKVIN

DGLTDCDGHGTLVAGI

RGARESSNIVGAGNLD

RLTATAHRGARESSNI

PGLNATEVVRRLTATA

NGLPDAHQKLVALSGT

AFACLAATVVVAGWWT

GDGALANGLPDAHQKL

AAIRYAAVDKDAVIVA

GTSYAAGYVSGVAALV

LLSIRAMSTKFSPTS

DPRNWAGVTSVSI PSW

SGVAALVRSRY PGLNA

ASVSNSGDGALANGLP

TPSQTMLNLPAAWQFS

DRMVDQAALGAAIRYA

AVDKDAVIVAAAGNTG

PQLAQATLDVAVLAGA

NIVGAGNLDAVAALTW

TAATVAIARRRREPT

NLDAVAALTWQLPAEP

YVLSVASLTSAGQPSK

GVAPAARLLSIRAMST

VQPGPRLPNVDAGGDF

DLGAKVINVSTITCLP

AGAAALSVLVGLTAAT



