

# ABCpred Prediction Server

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## INPUT INFORMATION

Sequence name	
Length of the sequence	414
Number of 16mers from the input sequence	399
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	ADRQVRPVAPGSKATM	25	0.93	
2	CEERGGDPRRPGKSDE	187	0.92	
3	DGHKMSKSRGNLVLVS	288	0.91	
3	YESGYDRDTMLRLCEE	174	0.91	
4	PGEPSWSPFPGRPG	213	0.90	
5	EATARLHRWRTATALP	337	0.88	
6	YVHAGMIGWDGHKMSK	279	0.87	
6	DATLQFGYESGYDRDT	167	0.87	
7	ITDIDDPLFERADRDG	82	0.86	
7	RYLADDLDTPKAIAAL	366	0.86	
7	LRLYDSADRQVRPVAP	19	0.86	

7	GEYQDIYFRADATLQF	157	0.86	
7	VELIEKMLACGAAYVI	137	0.86	
8	VVARVRRYLADDLTTP	360	0.85	
8	PGRPGWHVECAAIALS	224	0.85	
9	VTDAVEYGGHDAGAPK	385	0.84	
9	SDLIFPHHEFTAHAHE	252	0.84	
9	ECAAIALSRIGSGLDI	232	0.84	
9	PRRPGKSDELDALLWR	194	0.84	
9	AALRVLPQDYVGATE	116	0.84	
10	VAPGSKATMYVCGITP	32	0.83	
11	LGHAATYVTFDLIHRL	53	0.81	
11	AGHYRADRFWSQQVLD	321	0.81	
11	YVGATEAIAEMVELIE	126	0.81	
12	GAAYVIDREMGEYQDI	147	0.80	
13	HRLWLDLGHHELHYVQN	66	0.79	
14	PVPVLPGRGPQLRLYD	8	0.78	
14	YVCGITPYDATHLGHA	41	0.78	
14	HAECVSGERRFARHYV	265	0.78	
14	ALLWRAARPGEPSWPS	205	0.78	
15	QSWYCPPVLPGRGP	2	0.75	
16	AGPAAVDVVARVRRYL	353	0.74	
17	LSRIGSGLDIQGGSD	238	0.73	
18	LFERADRDGVDWRDLA	89	0.72	
19	PYDATHLGHAATYVTF	47	0.71	
20	TPKAIAALDGWVTDVAV	374	0.70	
21	LGHELHYVQNITDIDD	72	0.68	
22	PSAVRLGLLAGHYRAD	312	0.67	
23	RWRTATALPAGPAAVD	344	0.66	
24	VDWRDLAQAEVALFCE	98	0.65	
25	PKLVATAIDALLGVDL	399	0.64	
26	GGHDAGAPKLVATAID	392	0.60	
27	ALRAQDVEPSAVRLGL	304	0.57	
27	KSRGNLVLVSALRAQD	294	0.57	

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# OVERLAP DISPLAY

MQSWYCPPVPVLPGRGPQLRLYDSADRQVRPVAPGSKATMYVCGITPYDATHLGHAATYVTFDLIHRLWLDLGHHELHYVQNI  
T  
DIDDLPLFERADRDRGVDWRDLAQAEVALFCEDMAALRVLPPQDYVGATEAIAEMVELIEKMLACGAAYVIDREMGEYQDIYFRA  
D  
ATLQFGYESGYDRDTMLRLCEERGGDPRRPGKSDEL DALLWRAARPGEPSWSPFGPGRPGWHVECAAIALSRIGSGLDIQG  
G  
GSDLIFFPHHEFTAHAECVSGERRFARHYVHAGMIGWDGHKMSKSRGNLVLVSALRAQDVEPSAVRLGLLAGHYRADRFWSQ  
Q  
VLDEATARLHRWRTATALPAGPAAVDVVARVRRYLADDLTPKATAALDGWVTDAVEYGGHDAGAPKLVATAIDALLGVDL<sup>4</sup>  
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ADRQVRPVAPGSKATM-----  
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CEERGGDPRRPGKSDE-----  
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DGHKMSKSRGNLVLVS-----  
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YESGYDRDTMLRLCEE-----  
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PGEPSWSPFGPGRPG-----  
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EATARLHRWRTATALP-----  
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YVHAGMIGWDGHKMSK-----  
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DATLQFGYESGYDRDT-----  
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ITDIDDPLFERADRDG

RYLADDDLTPKAIAAL

LRLYDSADRQVRPVAP

GEYQDIYFRADATLQF

VELIEKMLACGAAYVI

VVARVRRYLADDLTP

PGRPGWHVECAAIALS

VTDAVEYGGHDAGAPK

SDLIFPHHEFTAAHAE

ECAAIALSRIGSGLDI

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PRRPGKSDELDALLWR-----  
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AALRVLPPQDYVGATE-----  
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VAPGSKATMYVCGITP-----  
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LGHAATYVTFDLIHRL-----  
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AGHYRADREWSQQVLD-----  
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YVGATEAIAEMVELIE-----  
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GAAYVIDREMGEYQDI-----  
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HRLWLDLGHELHYVQN-----  
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PVPVLPGRGPQLRLYD-----  
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YVCGITPYDATHLGHA-----  
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HAECVSGERRFARHYV

ALLWRAARPGEPSWPS

QSWYCPPVPVLPGRGP

AGPAAVDVVARVRRYL

LSRIGSGLDIQGGGSD

LFERADRDGVDWRDLA

PYDATHLGHAATYVTF

TPKAIAALDGWVTDV

LGHELHYVQNI TDIDD

PSAVRLGLLAGHYRAD

RWRTATALPAGPAAVD

VDWRDLAQAEVALFCE

PKLVATAIDALLGVDL

GGHDAGAPKLVATAID

ALRAQDVEPSAVRLGL

KSRGNLVLVSALRAQD