

# IEDB Analysis Resource

## MHC I Automated Server Benchmarks

Accumulated overall ranking scores

[Ranking scores](#) based on data sets submitted to the IEDB for the last at least 5 references.

Server	<a href="#">2019-03-15</a>	<a href="#">2019-02-01</a>	<a href="#">2018-05-11</a>	<a href="#">2018-01-26</a>	<a href="#">2017-09-01</a>	<a href="#">2017-03-23</a>	<a href="#">2016-12-09</a>	<a href="#">2016-05-03</a>	<a href="#">2016-02-19</a>	<a href="#">2015-08-07</a>	<a href="#">2015-07-31</a>	<a href="#">2015-07-17</a>	<a href="#">2015-06-26</a>	<a href="#">2015-06-19</a>	<a href="#">2015-05-15</a>	<a href="#">2015-02-06</a>	<a href="#">2015-01-16</a>	<a href="#">2014-10-31</a>	<a href="#">2014-06-20</a>	<a href="#">2014-05-23</a>	<a href="#">2014-03-28</a>	<a href="#">2014-03-21</a>	<a href="#">2013-01-01</a>
<a href="#">NetMHCpan 2.8</a>	58	66	70	72	64	61	57	59	59	72	56	57	54	55	51	52	53	45	65	63	59	59	58
<a href="#">NetMHCpan 3.0</a>	63	65	65	60	63	62	64	65	79	83	69	64	62	59	56	56	59	55	58	57	60	59	64
<a href="#">NetMHCpan 4.0</a>	70	66	66	56	56	56	49	44	59	70	64	68	66	62	59	56	64	62	55	57	62	61	68
<a href="#">SMM</a>	33	34	38	43	48	49	49	38	31	51	54	58	52	51	45	43	42	53	61	48	39	39	52
<a href="#">ANN 3.4</a>	62	68	73	77	76	77	81	74	67	77	65	67	64	67	63	63	58	58	58	65	47	50	69
<a href="#">ANN 4.0</a>	68	60	57	51	59	72	69	68	72	76	57	54	58	58	55	58	55	54	78	73	68	67	66
<a href="#">ARB</a>	13	14	13	14	13	25	20	20	25	55	32	34	29	31	28	29	30	18	52	45	21	18	25
<a href="#">SMMPMBEC</a>	43	47	56	62	62	71	87	75	73	81	52	46	45	43	37	36	33	51	59	43	39	40	52
<a href="#">IEDB Consensus</a>	41	39	44	44	58	66	62	47	41	55	42	44	45	44	36	39	38	48	52	48	57	57	53
<a href="#">NetMHCcons</a>	60	66	71	76	74	73	69	66	58	68	66	68	69	71	67	65	64	71	56	61	63	63	71
<a href="#">PickPocket</a>	39	42	51	53	45	52	48	43	43	53	34	38	34	35	28	24	32	28	64	66	51	46	26
<a href="#">mhcflurry 1.2.0</a>	65	52	56	55	59	74	73	83	90	88	90	92	92	92	93	93	82	55	90	85	85	85	77

Weekly ranking scores

[Ranking scores](#) based on data sets submitted to the IEDB within a single week.

Server	<a href="#">2019-03-15</a>	<a href="#">2019-02-01</a>	<a href="#">2018-05-11</a>	<a href="#">2018-01-26</a>	<a href="#">2017-09-01</a>	<a href="#">2017-03-23</a>	<a href="#">2016-12-09</a>	<a href="#">2016-05-03</a>	<a href="#">2016-02-19</a>	<a href="#">2015-08-07</a>	<a href="#">2015-07-31</a>	<a href="#">2015-07-17</a>	<a href="#">2015-06-26</a>	<a href="#">2015-06-19</a>	<a href="#">2015-05-15</a>	<a href="#">2015-02-06</a>	<a href="#">2015-01-16</a>	<a href="#">2014-10-31</a>	<a href="#">2014-06-20</a>	<a href="#">2014-05-23</a>	<a href="#">2014-03-28</a>	<a href="#">2014-03-21</a>	<a href="#">2013-01-01</a>
<a href="#">NetMHCpan 2.8</a>	55	44	45	81	81	70	60	56	9	95	60	77	50	89	49	54	52	45	64	86	82	59	58
<a href="#">NetMHCpan 3.0</a>	86	62	77	47	74	65	65	36	64	95	72	77	100	89	54	58	56	55	91	9	82	59	64
<a href="#">NetMHCpan 4.0</a>	95	76	80	50	65	70	70	16	27	95	49	55	88	89	64	52	58	62	64	9	100	61	68
<a href="#">SMM</a>	27	50	25	19	34	35	85	68	46	0	9	68	-	89	50	41	42	53	64	55	18	39	52
<a href="#">ANN 3.4</a>	59	47	61	79	78	59	85	100	73	95	46	55	-	95	62	66	62	58	32	36	36	50	69
<a href="#">ANN 4.0</a>	64	89	93	33	41	89	40	55	82	95	100	9	-	89	51	59	57	54	100	73	36	67	66
<a href="#">ARB</a>	0	24	2	-	13	26	0	0	0	100	0	0	-	89	26	20	37	18	9	36	82	18	25
<a href="#">SMMPMBEC</a>	36	39	30	64	52	49	90	82	64	95	100	32	-	89	39	36	35	51	91	55	18	40	52
<a href="#">IEDB Consensus</a>	18	67	61	9	30	61	85	73	91	9	27	36	-	100	32	44	33	48	36	36	0	57	53
<a href="#">NetMHCcons</a>	77	48	57	67	82	74	65	88	36	95	60	41	50	89	68	70	63	71	18	82	82	63	71
<a href="#">PickPocket</a>	9	35	7	75	40	47	85	24	18	95	34	82	0	70	31	31	24	28	0	77	82	46	26
<a href="#">mhcflurry 1.2.0</a>	73	61	68	-	38	89	10	59	100	95	87	86	-	89	93	92	95	55	91	95	91	85	77

Benchmark results get recalculated as new servers are added to the benchmarks. Numbers in light grey represent scores on datasets before the server was incorporated into the benchmarks. Previous versions of the benchmark results can be downloaded below

- [2018-01-26](#)